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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

**RESEARCH PROPOSAL
QUARTERLY STATUS REPORT**



July - September 1990

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Systems Command. DCS/Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATF - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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PART I

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
FLORIDA UNIV-COLL OF VETERINARY MEDICINE	BESCH	EMERSON	L	90-XO-038	A	CAVENDER
GENERAL ELECTRIC CO	LEIG	TERRY	K	90-NC-307		HEDBERG
GEORGE WASHINGTON UNIVERSITY	ABRAMSON	FRED	P	90-NL-251		CERVENY
GEORGIA INSTITUTE OF TECH	ATLURI	SATAYA	N	90-NA-225		HANITOS
	CATRAMBONE	RICHARD	A	90-NL-203		FREGLY
	FERRI	ALDO		90-NA-232		WU
	WARDI	YORAI		90-NM-433		GLASSMAN
GEORGIA STATE UNIVERSITY	ALBERS	H. ELLIOTT		90-NL-174		BERRY
	CROW, JR	SIDNEY	A	90-NL-230		CERVENY
GEORGIA TECH RESEARCH CORPORATION	GOLE	JAMES	L	90-NC-284	A	BURGGRAF
GEORGIA UNIV RESEARCH FOUNDATION INC	DALLAS	CHAM	E	90-NC-199		CERVENY
HOUSTON AREA RESEARCH CENTER	MARGRAVE	JOHN	L	90-NC-261		BURGGRAF
HOWARD UNIVERSITY	PETERSON	RAYMOND	L	90-NL-243		CERVENY
HURCULES AEROSPACE CO.	GARDINER	D	S	50-NC-275		BURGGRAF
IIT RESEARCH INSTITUTE	SMELSON	ALAN	L	90-NC-270		BURGGRAF
IDAHO UNIVERSITY	CRAWFORD	RONALD	L	90-NL-212		CERVENY
	FROES	F	M	90-NE-216	A	ROSENSTEIN
	SHREEVE	JEAN NE	M	90-NC-252		HEDBERG
ILLINOIS INSTITUTE OF TECHNOLOGY	VON WANDRUSZKA	RAY		90-NL-222		CERVENY
INDIANA UNIVERSITY	MARVASTI	FAROKH	J	90-NM-436		SJOGREN
	ORTOLEVA	PETER	S	90-NL-214		CERVENY
INTERFACE FOUNDATION OF NORTH AMERICA	WATSON	CHARLES	G	90-NL-172		TANGNEY
IOWA STATE UNIV OF SCIENCE AND TECH	KETTENRING	J. R.		90-NM-410		SJOGREN
JET PROPULSION LABORATORY	VERKADE	JOHN	G	90-NC-283		HEDBERG
JOHNS HOPKINS UNIVERSITY	PINEDA	FERNANDO	J	90-NM-414	A	JACOBS
	KAUFMAN	JOYCE	J	90-NC-267		BURGGRAF
	KHUREV	JACOB	B	90-NC-218	A	CRAIG
	OLTON	DAVID	S	90-NL-180	A	FREGLY
KANSAS STATE UNIVERSITY	YANTIS	STEVEN		90-NL-181		FREGLY
	BECK	B. TERRY	A	90-XO-031	A	CAVENDER
	HETERICK	BARBARA		90-NL-247		CERVENY
KENT STATE UNIVERSITY	JIANG	HONGKING	E	90-NE-233		CRAIG
	CASARISS	STEPHEN	E	90-NL-224		CERVENY
LA JOLLA INSTITUTE	CARLSON	ROBERT		90-NL-206		CERVENY
LAWRENCE LIVERMORE LAB CALIF UNIV	MADDAD	ZIAD		90-NM-425		WACHMAN
	AKELLA	JAGAN		90-NC-271		BURGGRAF
LOCKHEED MISSILES & SPACE CO INC	MAILHOT	CHRISTIAN		90-NC-272		BURGGRAF
LOUISHBOROUGH UNIV OF TECHNOLOGY	ERMER	SUSAN		90-NC-255		ULRICH
LOUISIANA STATE UNIVERSITY	PHILLIPS	NICHOLAS	J	90-NC-282	A	ULRICH
	CHARALAMPOPOULOS	TRYFON		90-NA-229		TISHKOFF
	STADLER	MICHAEL	A	90-NL-223		FREGLY
MANITOWA UNIVERSITY	JELL	RALPH	M	90-NL-205		MADDAD
MARSHALL UNIVERSITY	VALENTOVIC	MONICA	A	90-NL-182		CERVENY
MASSACHUSETTS GENERAL HOSPITAL	ALPERT	NATHANIEL	M	90-NL-179	A	FREGLY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	COUNSELMAN	CHARLES	C	90-NP-125		PERRIZO
	DAHLEN	MUNTER	A	90-NM-379		JACOBS
	EPSTEIN	A H		90-NA-231		MCMICHAEL
	FREUND	ROBERT	M	90-NM-435		GLASSMAN

REPORT DATE 10/26/90
INSTITUTION INDEX
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - A ACCEPTED, D DECLINED, W WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
MATERIALS RESEARCH SOCIETY		KING	ROBERT	W	90-NP-135		PERRIZO
		JALIN	JAMES	B	90-NM-437	A	GLASSMAN
		VALAVANI	LENA		90-NM-360		JACOBS
		YANG	T	F	90-NA-207	A	BIRKAN
		GALLANCE	JOHN	B	90-NE-201	A	SCHIOLER
MCDONWELL DOUGLAS RESEARCH LAB		ROOS	FREDERICK	W	90-NE-203	A	ROSENSTEIN
		SAJBEN	MIKLOS		90-NE-228	D	POMRENKE
		SCHROJILGEN	S		90-NA-235		SAKELL
		LUTTON	LEWIS	J	90-NA-251		SAKELL
		WRIGHT III	KENNETH	M	90-NC-268		BURGGRAF
MISSION RESEARCH CORP		ANDERSON	SHARON	T	90-XO-039	A	CAVENDER
		CRIDDLE	CRAIG	J	90-NC-300	A	STOBIE
		KOCHESPAHANI	MANOCHHR	S	90-NL-256		CERVENY
		OSIEL	PATRICK	M	90-NL-213		CERVENY
		ZOLLEN	W. MICHAEL	J	90-NA-215		MCWICHAEL
NATIONAL INST. OF STANDARDS & TECHNOLOGY		DEMETRIADES	ANTHONY	D	90-NL-197		CERVENY
		SKOGLEY	EARL	C	90-NP-124		BARKER
		HORSTMAN	RICHARD	R	90-NA-259		SAKELL
		CAVANAGH	DAVID	C	90-NL-229	A	SAKELL
		CRAMER	PAUL	S	90-NA-265		BURGGRAF
NATIONAL RESEARCH COUNCIL		COR	LAWRENCE	H	90-NE-281	A	SCHIOLER
		BRADLEY	GORDON	D	90-NP-136	A	KELLEY
		BERRY	ALAN		90-NM-362	A	SJOGREN
		DONALDSON	WENDY	L	90-NM-442	A	GLASSMAN
		ROULAND	HARVEY		90-NC-290	A	WEDBERG
NEW MEXICO STATE UNIVERSITY		SCHMIDT-NIELSON	ASTRID	L	90-XO-040	A	OWENS
		RAYSON	GARY	D	90-NP-131		BARKER
		NAKA	KEN-ICHI		90-NL-202		FREGLY
		SORAN	BOLINDRA	M	90-NC-287		WEDBERG
		BEDAIR	SALAH	M	90-NL-178		TANGNEY
NORTH DAKOTA STATE UNIVERSITY		CAMPBELL	STEVEN	L	90-NM-369		NACHMAN
		KELLEY	C.	T	90-NE-211		POMRENKE
		STALLMAN	MATTHIAS		90-NM-376		JACOBS
		SORDON	MARK	S	90-NM-422		GLASSMAN
		GIESE	ROGER	W	90-NM-405	A	GLASSMAN
NORTHWESTERN UNIVERSITY		SAZANT	IDENEK	P	90-XO-033		CAVENDER
		MARKS	TOBIN	J	90-NL-209		CERVENY
		WATKOWSKY	BERNARD	A	90-NA-247	A	WU
		PINSKY	MARK	J	90-NC-291	M	ULRICH
		WCKEE	RODNEY	A	90-NM-375		NACHMAN
JAK RIDGE NATIONAL LAB		WALIA	SATISH	A	90-NM-374		BURGGRAF
		REYNOLDS	PETER	K	90-NC-282	A	SCHIOLER
		BLUMENTHAL	SAUL		90-NE-210		CERVENY
			THOMAS		90-NL-250	A	SJOGREN
				M	90-NP-137	A	KELLEY
JAKLAND UNIVERSITY					90-NM-382		SJOGREN
					90-NA-206	A	BIRKAN

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - A ACCEPTED, D DECLINED, W WITHDRAWN

INSTITUTION	REPORT DATE 10/26/90	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PI NAME
OHIO STATE UNIVERSITY		ANDERSON	C DAVIS			90-NA-227		MCMICHAEL
		CHANDRASEKHAR	3.			90-NA-433		WAKSHAM
		OVERMAN II	EDWARD			90-NA-373	A	NACHMAN
OKLAHOMA STATE UNIVERSITY		LJCHMILLER III	ROBERT		L	90-NL-254		CERVENY
OLD DOMINION UNIVERSITY		BRITCHER	COLIN		P	90-NA-213		MCMICHAEL
OREGON STATE UNIVERSITY		WERNPIED	ALAN		G	90-NA-250		WU
		LOGENDRAN	RASARATNAM			90-NA-397	D	GLASSMAN
						90-NA-398	D	GLASSMAN
PENNSYLVANIA STATE UNIVERSITY		KURTZ	STEWART		K	90-NC-302	D	ULRICH
		MESSING	GARY		L	90-NC-297		ULRICH
		RAO	C.		R	90-NA-391		SJOGREN
PHYSICAL SCIENCES INC		SENIOR	CONSTANCE		L	90-NC-260		BURGGRAF
POLYTECHNIC INSTITUTE OF NEW YORK		KUO	SPENCER		P	90-NP-122	D	RADOSKI
PRINCETON UNIVERSITY		RABITZ	HERBERT			90-NA-409		NACHMAN
		SMITS	ALEXANDER		J	90-NA-260		MCMICHAEL
		SOOS	ZOLTAN		G	90-NC-292		ULRICH
PURDUE RESEARCH FOUNDATION		FLEETER	SANFORD		R	90-NA-226		MCMICHAEL
		GRANT	EDWARD			90-NC-266		BURGGRAF
		MURTHY	S N 3			90-NA-217		MCMICHAEL
PURDUE UNIVERSITY		GAUTSCHI	WALTER			90-NA-427	D	NACHMAN
		ZAK	STANISLAW		H	90-NA-407		JACOBS
RENSSELAER POLYTECHNIC INSTITUTE		COLE	JULIAN		D	90-NA-361	A	NACHMAN
		CRAIG	KEVIN		C	90-NC-249		HEDBERG
RICE UNIVERSITY		SEDER	PETER NORDLANDE		R	90-NC-264		BURGGRAF
ROCKWELL INTER. RESER-DEV. CENTER		GRANT	T		A	90-NC-263	A	POMENKE
ROCKWELL INTERNATIONAL, SCIENCE CENTER		HARDWICK	R		W	90-NE-221		ROSENSTEIN
ROSE-HULMAN INSTITUTE OF TECHNOLOGY		CARLSON	DALLIS		A	90-NC-236	A	CAVENDER
RUTGERS - THE STATE UNIVERSITY ENGR		BENAROYA	PATRICIA			90-XO-032		WU
		WENG	WAYM		J	90-NA-241		HARITOS
		9AE	GEORGE		K	90-NA-273		BURGGRAF
JRI INTERNATIONAL		SHOCKEY	Y.		A	90-NC-205		HARITOS
		DE LA BEAUJARDIERE	DON		A	90-NC-295	A	STOBIE
SCIENTIFIC RESEARCH ASSOCIATES, INC.		GRUBIN	ODILE		L	90-NE-231		WITT
3ITEK RESEARCH LABORATORIES		GUDI	HAROLD		E	90-NL-183		CERVENY
SOCIETY FOR INDUSTRIAL & APPLIED MATH		BLOCK	RAMADEVI			90-NA-399		NACHMAN
SOCIETY OF TOXICOLOGY		SHRICH	I.		A	90-NL-176		CERVENY
SOUTH DAKOTA STATE UNIVERSITY		CLAY	MARION		A	90-NL-242		CERVENY
		RICE	SHARON		A	90-NL-233		CERVENY
SOUTHERN ILLINOIS UNIVERSITY		CHOW	JAMES		L	90-NA-243		HARITOS
		GREGORY	JOHN			90-NA-391		JACOBS
		LEDZEWICZ-KOWALEWSKA	SQUILA		T	90-NA-430		JACOBS
SOUTHWEST RESEARCH INSTITUTE		SCHWAB	STUART		I	90-NE-212		SCHOLER
STANFORD UNIVERSITY		FORJA	RONALDO		3	90-NA-246		BOYCE
		DANTZIG	GEORGE		H	90-NM-367	A	GLASSMAN
		GEHALLE	T			90-NE-203		WEINSTOCK
		HESSELINK	LAMBERTUS		P	90-NE-238		CRAIG
		JOHNSTON	JAMES			90-NA-199		MCMICHAEL

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - A ACCEPTED, D DECLINED,

REPORT DATE 10/24/90

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
STATE UNIVERSITY OF NEW YORK		KELLER	JOSEPH	S	90-NM-349	A	NACHMAN
		KLINE	STEPHEN	J	90-NA-245		MCMICHAEL
		LELE	SANJIVA	K	90-NA-256		MCMICHAEL
		MOIN	PARVIZ		90-NA-230	A	MCMICHAEL
		MURRAY	WALTER		90-NM-406		GLASSMAN
		NILSSON	WILS		90-NM-428		WAKSMAN
		ROSS	JOHN		90-NC-256	A	WODARCZYK
		COSPER	ELIZABETH	M	90-NC-241		CERVENY
		GARVEY	JAMES	F	90-NC-306		ULRICH
		GEORGE	WILLIAM	K	90-NA-211		MCMICHAEL
STEVENS INSTITUTE OF TECHNOLOGY		MILES	RONALD	K	90-NA-249		WU
		NAPOLI	JOSEPH	L	90-NL-215		CERVENY
		PRASAD	RARAS	N	90-NC-277		ULRICH
		SHOONEN	MARTIN	A	90-NL-208		CERVENY
		ERMLER	WALTER	C	90-NP-123		LUPO
		NARDI	VITTORIO		90-NP-120	A	BARKER
		SATYANARAYANA	A.		90-NM-383		GLASSMAN
		WEINER	DONALD	D	90-XO-029	A	CAVENDER
		BLOOM	JUSTIN	L	90-NE-213	A	WITT
		MOORE	DIRK	F	90-NM-421		SJOGBREN
TEXAS TECH UNIVERSITY		HALVERSON	DON	R	90-NM-495		SJOGBREN
		NARCONICH	FRANCIS	J	90-NM-426	A	NACHMAN
		RUNDELL	WILLIAM		90-NP-353		NACHMAN
		GROEGER	ALAN	U	90-NL-252		CERVENY
		WANAKULE	NISAI		90-NL-240		CERVENY
		ERTAS	ATILA		90-NA-233		WU
		ISHIHARA	OSAMU		90-NA-235		WU
		WALKUP	JOHN	F	90-NP-121		BARKER
		ABDELGHANI	ASSAF	A	90-NE-202		CRAIG
		SARBER	JOHN	T	90-NL-237		CERVENY
USAF-SCHOOL OF AEROSPACE MEDICINE UNITED ENGINEERING TRUSTEES INC		FINGERMAN	MILTON		90-NL-231		CERVENY
		PILMANIS	ANDREW	A	90-NL-239		CERVENY
		FREIMAN	CHARLES	V	90-NL-200	A	CERVENY
		KORWEK	ALEXANDER	D	90-NA-219	A	SOYCE
		ANDERSEN	E	L	90-NE-206	A	WEINSTOCK
		CHANDRA	ASHIJIT		90-NC-269		BURGGRAF
		FALCO	CHARLES		90-NA-203		HARITOS
		HOLONEY	J.	M	90-NE-224		POMRENKE
		WYGNANSKI	ISRAEL	V	90-NM-357	A	NACHMAN
		HARRISON, III	ROBERT	J	90-NA-212	A	MCMICHAEL
UNIV OF ARKANSAS UNIV OF BRITISH COLUMBIA UNIV OF CALIFORNIA		REINER	PETER	M	90-NL-220		CERVENY
		GAUTIER	CATHERINE	E	90-NL-196		HADDAD
		BOSSARD	ARTHUR	C	90-NC-309	A	STOBIE
		HAKIMI	S.	L	90-NE-225	A	WITT
		MELTON	J.		90-NM-417	D	GLASSMAN
		HOFFMAN	WILLIAM	J	90-AM-351		JACOBS
		WOLT	DONALD		90-NL-193		TANGNEY
			EMERITUS	M	90-NA-237	D	SAXELL

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF MIAMI	STEIN	RICHARD	S	90-NC-296		HEDBERG
	ASHKENAZI	JOSEF		90-NE-234	D	WEINSTOCK
UNIV OF MICHIGAN	CHEN	I WEI		90-NE-235	D	WEINSTOCK
	FREUDENBERG	JAMES	S	90-NE-214	A	SCHIOLE
	YAGLE	ANDREW	E	90-NM-377		JACOBS
UNIV OF MINNESOTA	CHOU	STEPHEN	Y	90-NM-392		SJOGREN
	GEORGIOU	TRYPHON	T	90-NE-237		WITT
	LED, PH.D.	PERRY		90-NM-424		JACOBS
	ROSEN	J.	B	90-NA-257		HARITOS
	SHAMMA	JEFF		90-NM-431		GLASSMAN
	MEHENDALE	HARIHARA	M	90-NM-355		JACOBS
UNIV OF MISSISSIPPI MEDICAL CENTER	ASIT	ASIT	P	90-NL-187		CERVENY
UNIV OF MISSOURI	CHICONE	CARMEN	Q	90-NM-356		SJOGREN
	JACOBS	MARC		90-NM-370		SJOGREN
	MOSSMAN	DEBORAH	J	90-NM-400		HOLLAND
	RAO	VITTAL	S	90-XO-035	A	CAVENDER
	VIGNALE	GIOVANNI		90-XO-036		CAVENDER
UNIV OF NEBRASKA	GHATTACHARYA	PRAJIR	H	90-XO-034	A	CAVENDER
	FLOWERS	JOHN		90-NM-403		NACHMAN
UNIV OF NEW MEXICO	BEIN	THOMAS		90-NM-415	D	WAKSMAN
	SCHAMLOGLU	EDL	M	90-NL-189		FREGLY
	DESIMONE	JOSEPH		90-NC-254	A	ULRICH
UNIV OF NORTH CAROLINA	ROBLIN	J.	M	90-NP-127		BARKER
	TOLLE	JON		90-NC-314	A	HEDBERG
	MARCHAND	ALAN	M	90-NM-366		WAKSMAN
UNIV OF NORTH TEXAS	GOETZ	FREDERICK	P	90-NM-418	A	GLASSMAN
UNIV OF NOTRE DAME	SAGATINI	DAVID	W	90-NC-251		HEDBERG
UNIV OF OKLAHOMA	MARK	ROSE		90-NL-233		CERVENY
UNIV OF PARIS	PONTE-CASTANEDA	PEDRO		90-NL-219		CERVENY
UNIV OF PENNSYLVANIA	VOTH	GREGORY	A	90-NC-258	A	WODARCZYK
	BARRIONUEVO	GERMAN		90-NA-261	A	HARITOS
	RAJAGOPAL	K.		90-NC-248		BURGGRAF
UNIV OF PUERTO RICO	JIMENEZ	BRALIO	R	90-NC-273		BURGGRAF
UNIV OF RHODE ISLAND	GAMERDINGER	AMY	D	90-NL-177		HADDAD
	KAY	STEVEN	P	90-NM-394		NACHMAN
	LATIMER	JAMES	S	90-NL-234		CERVENY
UNIV OF SOUTHERN CALIFORNIA	DAPKUS	P		90-NL-255		CERVENY
	KUMAR	V.	D	90-NM-358	A	SJOGREN
	PARKER	ALICE	P	90-NL-207		CERVENY
	SCHRADE	HERBERT		90-NE-227		CRAIG
UNIV OF STUTTGART	GYKAT	ALEX		90-NM-390		WAKSMAN
UNIV OF TENNESSEE	ALI	MOONIS	J	90-NM-420		HOLLAND
UNIV OF TENNESSEE / SPACE INSTITUTE	ARAGON	JORGE		90-NA-200	A	BIKAN
UNIV OF TEXAS	CHARNES	A.		90-NM-440		WAKSMAN
				90-NM-402		WAKSMAN
				90-XO-037	A	CAVENDER
				90-NM-432		GLASSMAN

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UNIV OF TOLEDO	LAGOW	RICHARD		J	90-NC-299	W	HEDBERG
	MIRANKER	DANIEL		P	90-NC-299		HEDBERG
	WILEY	JOHN		R	90-NC-416		WAKSMAN
	SMITH	DOUGLAS		A	90-NC-245		CERVENY
UNIV OF TORONTO	SMITH	DOUGLAS		A	90-NC-227		CERVENY
	SMITH	DOUGLAS		A	90-NC-301		DAVIS
UNIV OF VIRGINIA	MACLEOD	COLIN		M	90-NC-173		FREGLY
	MOOR	AHMED		K	90-NC-222	A	WU
UNIV OF WASHINGTON	SAVERJEE	SUNIMAL		A	90-NC-224		BOYCE
	GOLDSTEIN	EMERITUS		A	90-NC-437		GLASSMAN
	HUNT	EARL		3	90-NC-194		FREGLY
	KUROSAKA	MEHMET		K	90-NC-311		MCMICHAEL
UNIV OF WYOMING	SARIKAYA	MINORU		L	90-NC-239		HEDBERG
	TAYA	HAROLD		R	90-NC-220		HARITOS
	BERGMAN	LAURA		R	90-NC-204		CERVENY
	NOVICK	RAFAEL		T	90-NC-258		FREGLY
VANDERBILT UNIVERSITY	HAFTKA	LIVIU		E	90-NC-396		GLASSMAN
	LIBRESCU	JAMES		J	90-NC-304		WU
	MCGRATH	ROBERT		K	90-NC-338	A	HEDBERG
	PLEMMONS	BIJOY		K	90-NC-380	D	GLASSMAN
WAKE FOREST UNIVERSITY	GHOSH	ROBERT		M	90-NC-216		CERVENY
	ARKING	JOGINDRA		G	90-NC-128		LUPO
	WADEHRA	WAYNE		P	90-NC-246		CERVENY
	LANDIS	J		P	90-NC-230	A	WEINSTOCK
WASHINGTON UNIVERSITY	GAVALER	ROBERT		A	90-NC-441		JACOBS
	LIPTON, JR	GLEN		K	90-NC-221		CERVENY
	CHANG	RICHARD		E	90-NC-202	A	TISHKOFF
	ROSNER	DANIEL		E	90-NC-228	A	TISHKOFF
WESTERN WASHINGTON UNIVERSITY	GREENIVASAN	K		R	90-NC-238	A	MCMICHAEL
	GREENIVASAN	K		R	90-NC-238	A	MCMICHAEL

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BASIC PROCESSES OF PLASMA PROPULSION UNIV OF STUTTGART	SCHRADE HERBERT	R 12 10/07/90 \$81,050	A SIRKAN 90-NA-200	\$81,050 15/10/90 \$81,050
MICROANALYSIS OF DEFORMATION OF SOIL UNIV OF GLASGOW	SMART N	R 12 10/07/90 \$121,331	A BOYCE 90-NA-201	\$121,331 01/11/90 \$121,331
NONLINEAR OPTICAL SPECTROSCOPY OF MULTICOMPONENT DROPLETS AND TWO AND THREE DIMENSIONAL MEASUREMENTS IN FLAMES YALE UNIVERSITY	CHANG RICHARD	M 36 11/07/90 \$600,000	A TISHKOFF 90-NA-202	\$200,000 01/01/91 \$600,000
GROWTH AND COALESCENCE OF MICRODEFECTS IN Ti-AL ALLOYS INCLUDING THE EFFECTS OF DAMAGE INTERACTIONS PLASTICITY AND FINITE STAINS UNIV OF ARIZONA	CHANDRA ASHIJIT	M 36 11/07/90 \$376,669	HARITOS 90-NA-203	\$0 / / \$0
MICROSTRUCTURE/PROPERTY RELATIONSHIPS FOR BRITTLE MATRIX COMPOSITES SRI INTERNATIONAL	SHOCKEY DON	M 36 11/07/90 \$452,182	HARITOS 90-NA-205	\$0 / / \$0
STABILITY OF CONSTRAINED FLEXIBLE STRUCTURES OPERATING IN THE PRESENCE OF SINGULARITY UNIV OF ILLINOIS	AMIROUCHE FARID	M 36 11/07/90 \$188,513	WU 90-NA-210	\$0 / / \$0
ON THE WALL JET IN STREAMING FLOW UNIV OF ARIZONA	WYGNANSKI ISRAEL	R 12 12/07/90 \$118,300	A MCMICHAEL 90-NA-212	\$118,300 15/11/90 \$118,300
EFFECTIVE COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS UNIV OF VIRGINIA	NOOR AHMED	M 31 17/07/90 \$199,679	A WU 90-NA-222	\$36,433 30/09/90 \$190,510
TRANSPORT PHENOMENA AND INTERFACIAL KINETICS IN MULTIPHASE COMBUSTION SYSTEMS YALE UNIVERSITY	ROSNER DANIEL	M 36 26/07/90 \$452,600	A TISHKOFF 90-NA-228	\$145,000 01/01/91 \$452,600

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TURBULENCE AND TURJULENCE CONTROL	YALE UNIVERSITY	SPEENIVASAN	R 24 13/08/90 \$264,252	A MCMICHAEL 90-NA-238	3129,953 15/12/93 \$264,252
SUBMICROSCOPIC DEFORMATION OF CEMENT PASTE AND MORTAR	UNIV OF KANSAS	DARWIN	N 12 10/09/90 \$83,464	A WU 90-NA-248	\$83,464 01/04/91 \$83,464
PART 1 DYNAMICS OF STALL CONTROLLED AIRFOILS WITH HIGH LIFT, PART 2 VISUALIZATION STUDY OF THE VORTEX TOPOLOGY OF FINITE WINGS	UNIV OF COLORADO	PETER	N 24 18/09/90 \$100,740	SAKELL 90-NA-252	\$0 / / \$0
ARTICULATE CARTILAGE AS A COMPOSITE MATERIAL	UNIV OF MINNESOTA	PERRY	N 21 21/09/90 \$550,770	HARITOS 90-NA-257	\$0 / / \$0
ANALYSIS OF NON-LOCAL THERMAL EQUILIBRIUM LASER SUSTAINED HYDROGEN	UNIV OF ILLINOIS	HERMAN	R 12 25/09/90 \$99,978	A BIRKAN 90-NA-264	\$99,978 18/02/91 \$99,978
TURST-VORTEX FLOWFIELD UNSTEADINESS	MC DONNELL DOUGLAS RESEARCH LAB	ROOS	N 25 09/08/90 \$337,655	SAKELL 90-NA-236	\$0 / / \$0
MASS-REMOVAL INDUCED OSCILLATIONS OF SHOCK/BOUNDARY-LAYER INTERACTIONS	MC DONNELL DOUGLAS RESEARCH LAB	SAJBEH	N 25 18/09/90 \$290,237	SAKELL 90-NA-251	\$0 / / \$0
A HYBRID ANALYSIS FOR MICROMECHANICAL DAMAGE CHARACTERIZATION OF COMPOSITES BASED ON FRACTURE AND CONTINUUM DAMAGE MECHANICS	SOUTHERN ILLINOIS UNIVERSITY	C	N 36 30/08/90 \$248,401	HARITOS 90-NA-243	\$0 / / \$0
INTERNATIONAL CONFERENCE ON COMPUTATIONAL ENGINEERING SCIENCE	GEORGIA INSTITUTE OF TECH	ATLURI	N 06 20/07/90 \$0	HARITOS 90-NA-225	\$0 / / \$0

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ANALYSIS AND DAMPING ENHANCEMENT OF LARGE SPACE STRUCTURES WITH NONLINEAR JOINTS GEORGIA INSTITUTE OF TECH	FERRI ALDO	N 36 01/08/90 \$317,368	WU 90-NA-232	\$0 / \$0
ANTI-OPTIMIZATION OF STRUCTURES UNDER UNCERTAINTIES A NEW, SET THEORETICAL APPROACH TO FIND LEAST FAVORABLE RESPONSES AND FLORIDA ATLANTIC UNIVERSITY	ELISHAKOFF ISAAC	N 24 11/07/90 \$197,636	WU 90-NA-208	\$0 / \$0
JOINT UNIVERSITY-INDUSTRY RESEARCH ON THE DEVELOPMENT OF A NEW STABILITY-TRANSITION METHOD CALIFORNIA STATE UNIVERSITY	CESECE TUNCER	N 21 10/09/90 \$177,260	SAKELL 90-NA-253	\$0 / \$0
FUNDAMENTALS OF ACOUSTIC INSTABILITY IN LIQUID-PROPELLANT ROCKETS UNIV OF CALIFORNIA	WILLIAMS FORMAN	N 36 11/07/90 \$399,572	A BIRKAN 90-NA-209	\$122,579 15/12/90 \$399,622
THE FLUID DYNAMIC AND AERODYNAMIC CHARACTERISTICS OF MOVING CONTROL SURFACES WITH SEPARATION UNIV OF CALIFORNIA	HOLT EMERITUS	N 36 10/08/90 \$267,677	D SAKELL 90-NA-237	\$0 / \$0
CALIBRATION OF HOT-WIRES FOR THE MEASUREMENT OF MULTIPLE FLUCTUATING FLOW VARIABLES OLD DOMINION UNIVERSITY	SWITCHER COLIN	N 24 12/07/90 \$89,181	MCMICHAEL 90-NA-213	\$0 / \$0
NONLOCAL THEORY FOR FRACTURING OF QUASIBRITTLE MATERIALS NORTHWESTERN UNIVERSITY	BAZANT ZDENEK	N 36 05/09/90 \$246,147	A WU 90-NA-247	\$76,460 01/01/91 \$246,147
STABILITY AND DYNAMIC RESPONSE OF STRUCTURES SUBJECTED TO ROTATION INDUCED COMPRESSION OREGON STATE UNIVERSITY	WERNRIED ALAN	N 24 11/09/90 \$140,643	WU 90-NA-250	\$0 / \$0
LASER DIAGNOSTIC STUDIES OF PLASMA THRUSTERS JNIO STATE UNIV RESEARCH FOUNDATION	YORK THOMAS	R 12 11/07/90 \$40,250	A BIRKAN 90-NA-206	\$40,250 15/12/90 \$40,250

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A UNIFIED METHOD FOR THE EFFICIENT SYNTHESIS OF MECHANISMS UNIV OF MASSACHUSETTS	KRISHNAMURTY SUNDAR	N 36 30/08/90 \$144,928	WU 90-NA-244	\$0 / / \$0
AIR FORCE ENGINEERING RESEARCH INITIATION GRANTS UNITED ENGINEERING TRUSTEES INC	FREIMAN CHARLES	R 15 16/07/90 \$480,000	A BOYCE 90-NA-219	\$120,000 01/07/91 \$480,000
DEVELOPMENT AND APPLICATION OF FLUORESCENT DIAGNOSTICS TO FUNDAMENTAL DROPLET AND SPRAY PROBLEMS ARMY RESEARCH OFFICE	MANW DAVID	N 36 12/07/90 \$210,000	TISHKOFF 90-NA-216	\$0 / / \$0
ARO MPR FOR JAI ASSOCIATES, INC/SREINIVASAN ARMY RESEARCH OFFICE	LUCAS MARY ANN	N 24 16/07/90 \$68,975	A SAKELL 90-NA-218	\$48,368 01/10/90 \$68,975
THE STRUCTURE OF SUPERSONIC TURBULENT BOUNDARY LAYERS AND SHOCK WAVE BOUNDARY LAYER INTERACTIONS PRINCETON UNIVERSITY	SNITS ALEXANDER	R 24 21/09/90 \$300,962	MCMICHAEL 90-NA-260	\$0 / / \$0
MOLECULAR MIXING IN CHEAR LAYERS FORCED BY 2-D AND 3-D DISTURBANCES MICHIGAN STATE UNIVERSITY	KOOCHESFAMANI MANOOCHHEH	N 24 12/07/90 \$232,762	MCMICHAEL 90-NA-215	\$0 / / \$0
DAMAGE ACCUMULATION PROCESS IN ADVANCED METAL MATRIX COMPOSITES UNDER THERMAL CYCLING UNIV OF WASHINGTON	TAYA MINORU	R 36 16/07/90 \$85,554	HARITOS 90-NA-220	\$0 / / \$0
A FUNDAMENTAL STUDY OF THE FIELD COMPRESSOMETER TEST UNIV OF WASHINGTON	BARNEJEE SUNIMAL	N 36 18/07/90 \$304,970	BOYCE 90-NA-224	\$0 / / \$0
JET-IMPINGEMENT COOLING & THE TORNADO EFFECT OF HORSESHOE VORTICES ON CONVECTIVE HEAT TRANSFER UNIV OF WASHINGTON	K KUROSAKA	N 24 13/08/90 \$224,000	MCMICHAEL 90-NA-239	\$0 / / \$0

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THE OVERALL RESPONSE OF COMPOSITE MATERIALS UNDERGOING LARGE ELASTIC DEFORMATIONS UNIV OF PENNSYLVANIA	PONTE-CASTANEDA	PEDRO	N 19 24/09/90 \$109,059	A HARITOS 90-NA-251	\$52,692 01/01/91 \$109,059
A COMPREHENSIVE STUDY OF THE NON-CLASSICAL THEORY AND BEHAVIOR OF THIN-WALLED BEAM STRUCTURES MADE OF ADVANCED COMPOSITE MATERIALS VIRGINIA POLYTECHNIC INST & STATE UNIV	LIGRESU	LIVIL	N 36 29/09/90 \$160,557	WU 90-NA-258	\$0 / / \$0
DEVELOPMENT OF A TECHNIQUE TO DETERMINE THE MORPHOLOGY AND DYNAMICS OF AGGLOMERATES IN CHEMICALLY REACTING FLOWS LOUISIANA STATE UNIVERSITY	CHARALAMPOPOULOS	TRYFON	N 36 26/07/90 \$526,438	TISHKOFF 90-NA-229	\$0 / / \$0
INVESTIGATION OF UNSTEADY VORTICAL FLOW IN AN ANNULAR CASCADE STATE UNIVERSITY OF NEW YORK	GEORGE	WILLIAM	N 24 12/07/90 \$314,931	MCMICHAEL 90-NA-211	\$0 / / \$0
STUDIES OF SHORT-TIME GAUSSIAN CELL MAPPING METHOD STATE UNIVERSITY OF NEW YORK	MILES	RONALD	N 36 11/09/90 \$223,343	WU 90-NA-249	\$0 / / \$0
HEAT TRANSFER INTERACTIONS AND CONTROLLABILITY IN THE PRESENCE OF FREE STREAM TURBULENCE PURDUE RESEARCH FOUNDATION	MURPHY	S N E	N 36 13/07/90 \$239,963	MCMICHAEL 90-NA-217	\$0 / / \$0
AERO-THERMODYNAMIC DISTORTION INDUCED STRUCTURAL DYNAMIC RESPONSE OF MULTI-STAGE TURBOMACHINE BLADING PURDUE RESEARCH FOUNDATION	FLEETER	SANFORD	R 24 26/07/90 \$373,618	MCMICHAEL 90-NA-226	\$0 / / \$0
GRAPHICS POST PROCESSING SUPPORT FOR SHOCK WAVE-TURBULENT BOUNDARY LAYER NUMERICAL SIMULATIONS NASA - AMES RESEARCH CENTER	HORSTMAN	C	N 12 25/09/90 \$7,000	A SAKELL 90-NA-265	\$7,000 01/10/90 \$7,000
ORIGINAL TURBULENCE AND PHASE DYNAMICS A STUDY OF MACRO-AND MICRO-SCALE PHENOMENON IN A TURBULENT FLOW OHIO STATE UNIVERSITY	ANDERCK	C DAVIS	N 39 26/07/90 \$350,000	MCMICHAEL 90-NA-227	\$0 / / \$0

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DYNAMICS AND BIFURCATIONS OF LARGE FLEXIBLE STRUCTURES WITH APPENDAGES TEXAS TECH UNIVERSITY	ATILA	N 24 01/08/90 \$79,302	WU 90-NA-233	\$0 / / \$0
EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF MULTI DEGREE OF FREEDOM NONLINEAR SYSTEMS UNDER RANDOM EXCITATIONS TEXAS TECH UNIVERSITY	ATILA	N 24 01/08/90 \$79,302	WU 90-NA-235	\$0 / / \$0
STRESS WAVES PROPAGATION IN FOUNDATION-STRUCTURE CONTACT PROBLEMS UNDER DYNAMIC EXCITATION PEN-UNION UNIVERSITY OF THE NEGEV	GABRIEL	N 36 01/08/90 \$103,500	D ROYCE 90-NA-234	\$0 / / \$0
MICROMECHANICS OF HIGH-TEMPERATURE DEFORMATION OF METAL-MATRIX COMPOSITES AND THE INFLUENCE OF DISTRIBUTED DAMAGE RUTGERS - THE STATE UNIVERSITY ENGR	GEORGE WENG	N 25 22/02/90 \$159,035	HARITCS 90-NA-241	\$0 / / \$0
RANDOM EIGENVALUES IN STRUCTURAL DYNAMICS RUTGERS - THE STATE UNIVERSITY ENGR	MAYM	N 36 30/08/90 \$242,228	WU 90-NA-242	\$0 / / \$0
IMPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET MASSACHUSETTS INSTITUTE OF TECHNOLOGY	T	R 04 11/07/90 \$120,000	A BIRKAN 90-NA-207	\$120,000 01/02/91 \$120,000
CHARACTERIZATION OF FULLY SCALED UNSTEADY TURBINE BLADE BOUNDARY LAYERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	A H	N 24 30/07/90 \$303,925	MCMICHAEL 90-NA-231	\$0 / / \$0
TURBULENT CONVECTIVE HEAT TRANSFER WITH HIGH FREE-STREAM TURBULENCE STANFORD UNIVERSITY	JAMES	R 24 05/07/90 \$550,759	MCMICHAEL 90-NA-199	\$0 / / \$0
ACTIVE TURBULENCE CONTROL IN WALL BOUNDED FLOWS USING DIRECT NUMERICAL SIMULATION STANFORD UNIVERSITY	PARVIZ	R 13 30/07/90 \$135,455	A MCMICHAEL 90-NA-230	\$94,720 01/01/91 \$135,455

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INVESTIGATION OF THE TURBULENCE PRODUCING STRUCTURES IN THE BOUNDARY LAYER	STANFORD UNIVERSITY	KLINE	R 20 31/08/90 \$273,390	MCMICHAEL 90-NA-245	/ / \$0
THE ROLE OF PORE FLUIDS ON THE LOCALIZATION OF DEFORMATION IN DENSE GRANULAR MATERIALS	STANFORD UNIVERSITY	RONALDO BORJA	N 36 04/09/90 \$211,027	BOYCE 90-NA-246	/ / \$0
A NUMERICAL STUDY OF FREE-STREAM TURBULENCE EFFECTS ON STAGNATION- POINT HEAT TRANSFER	STANFORD UNIVERSITY	LELE	N 24 21/09/90 \$294,665	MCMICHAEL 90-NA-256	/ / \$0
NEW PREDICTIVE METHODS IN CHAOTIC FLUID DYNAMICS WITH APPLICATION TO TURBULENT HEAT TRANSFER	CALIFORNIA INSTITUTE OF TECHNOLOGY	LEONARD A	N 36 12/07/90 \$305,358	MCMICHAEL 90-NA-214	/ / \$0
RESEARCH IN HYPERVELOCITY GASDYNAMICS	CALIFORNIA INSTITUTE OF TECHNOLOGY	HORNUNG H 3	N 35 17/07/90 \$426,336	SAKELL 90-NA-223	/ / \$0
ENVIRONMENTAL IMPACT ON THE PERFORMANCE OF CONCRETE STRUCTURES	ARIZONA STATE UNIVERSITY	KRAJCIKOVIC DUSAN	N 36 20/09/90 \$247,000	WU 90-NA-254	/ / \$0
THE SPECTRUM AND INTERMITTENCY FUNCTIONS OF HIGH SPEED TURBULENT BOUNDARY LAYERS	MONTANA STATE UNIVERSITY	DEMETRIADES ANTHONY	N 24 21/09/90 \$164,464	SAKELL 90-NA-259	/ / \$0
THEORETICAL AND COMPUTATIONAL BASES FOR SIMULATION OF CRACK PROPAGATION IN THREE-DIMENSIONS	CORNELL UNIVERSITY	INGRAFFEA ANTHONY	N 36 21/09/90 \$319,319	WU 90-NA-255	/ / \$0
EFFECTS OF PRESSURE GRADIENT & MICRO-GROOVES ON REYNOLDS ANALOGY & TURBULENT PRANDTL NUMBER IN TRANSITIONAL BOUNDARY LAYERS	CLEMSON UNIVERSITY	JANG TING	N 24 25/09/90 \$204,903	MCMICHAEL 90-NA-262	/ / \$0

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RESEARCH ON ORGANOFLOURINE CHEMISTRY FOR 700 DEGREES F			JEAN NE	N 12 09/07/90 \$90,000	HEDBERG 90-MC-252	\$0 / / \$0
THERMOOXIDATIVE STABILITY			SAREEVE			
IDAHO UNIVERSITY						
MEASUREMENT OF RADIATIVE LIFETIMES OF VIBRATIONAL STATES OF SIMPLE IONS			MARK	R 12 13/07/90 \$22,558	A WODARCZYK 90-MC-258	\$35,230 01/11/90 \$35,230
UNIV OF PARIS			ROSE			
MATERIALS DERIVED FROM 1,1,1 PROPELLANE			MICHL	N 12 16/07/90 \$140,320	BURGGRAF 90-MC-262	\$0 / / \$0
UNIV OF COLORADO			JOSEF			
THEORETICAL METHODS FOR THE CALCULATION OF LIFETIMES OF ELECTRONIC EXCITATIONS IN ATOMS EMBEDDED IN MATRIX MATERIALS			PETER NORDLANDE	N 12 16/07/90 \$53,665	BURGGRAF 90-MC-264	\$0 / / \$0
RICE UNIVERSITY						
SPECTROSCOPIC STUDIES OF MATRIX-ISOLATED ATOMS, CLUSTERS AND IONS, POSSIBLE HIGH ENERGY DENSITY SYSTEMS			MARTIN	N 12 16/07/90 \$210,789	BURGGRAF 90-MC-274	\$0 / / \$0
UNIV OF FLORIDA			VALA			
GROWTH OF INERT FILMS FROM C-FULLERENE CLUSTERS			Y.	N 12 16/07/90 \$161,198	BURGGRAF 90-MC-278	\$0 / / \$0
IRT INTERNATIONAL			SAR			
STUDIES OF ENERGY TRANSFER PROCESSES OF RELEVANCE TO CHEMICALLY AND OPTICALLY PUMPED LASERS			HEAVEN	N 12 27/07/90 \$36,474	BURGGRAF 90-MC-285	\$0 / / \$0
EMORY UNIVERSITY			MICHAEL			
THE STRUCTURE AND REACTIVITY OF BORON AND CARBON SURFACES			TRENNY	N 12 31/07/90 \$124,141	BURGGRAF 90-MC-239	\$0 / / \$0
UNIV OF ILLINOIS			MICHAEL			
DEVELOPMENT OF PRACTICAL NO TECHNIQUES FOR PREDICTION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS			DEAR	R 12 02/08/90 \$115,766	A HEDBERG 90-MC-293	\$115,746 01/11/90 \$115,765
UNIV OF FLORIDA			MICHAEL J. S.			

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TITLE CONT- INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ATMOSPHERIC STUDIES OF THE BOUNDARY BETWEEN OPEN AND CLOSED FIELD LINES SRI INTERNATIONAL	DE LA BEAUJARDIERE DOILE	N 12 06/08/90 \$99,917	STOBIE 90-MC-295	\$0 / \$0
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY EMERGING TECHNOLOGY UNIV OF TEXAS	RICHARD LAGOW	R 12 09/08/90 \$120,000	HEDBERG 90-MC-298	\$0 / \$0
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY EMERGING TECHNOLOGY UNIV OF TEXAS	RICHARD LAGOW	R 12 09/08/90 \$120,000	HEDBERG 90-MC-299	\$0 / \$0
3D CLASSICAL TRAJECTORY STUDY OF DIATOM DISSOCIATION-ATOMIC RECOMBINATION REACTIONS UNIV OF TORONTO	GEORGE BURNS	N 12 15/02/90 \$27,625	DAVIS 90-MC-301	\$0 / \$0
MULTI-INVESTIGATOR RESEARCH PROGRAM NRP THE SCIENCE OF ULTRASTRUCTURAL SOL-SEL MATERIALS UNIV OF FLORIDA	LARRY HENCH	R 12 10/09/90 \$454,604	ULRICH 90-MC-305	\$0 / \$0
DESIGNING INTRINSICALLY CONDUCTING POLYMERS THEORY AND SYNTHESIS WITH RULES AND CALCULATIONS UNIV OF FLORIDA	HENDRIK MONKHORST	N 12 13/03/90 \$124,056	ULRICH 90-MC-308	\$0 / \$0
MOLECULAR LEVEL CONTROL OF ENHANCEMENT OF PRODUCT FORMATION IN A REACTION UNIV OF CHICAGO	STUART RICE	N 12 20/09/90 \$302,211	GURGGRAF 90-MC-310	\$0 / \$0
CIRRUS CLOUD MEASUREMENTS WITH LIDAR AND OTHER SENSORS UNIV OF MARYLAND	UPENDRA SINGH	N 12 25/09/90 \$137,510	STOBIE 90-MC-313	\$0 / \$0
PHOTOLYSIS LASER SENSOR UNIV OF FLORIDA	JAMES WINCFORNER	N 12 25/09/90 \$157,570	STOBIE 90-MC-315	\$0 / \$0

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ELECTRO-OPTIC POLYMER MATERIALS FOR ADVANCED DEVICE IMPLEMENTATION	ERNEP	N 12 11/07/90 \$148,225	ULRICH 90-MC-255	\$0 / / \$0
LOCKHEED MISSILES & SPACE CO INC	SUSAN			
COMPUTATIONAL STUDIES OF ENERGY STORAGE IN CONDENSED MEDIA	ADAMS	N 12 16/07/90 \$133,097	BURGGRAF 90-MC-265	\$0 / / \$0
ARMY ARMAMENT RES CMD/BALLISTICS RECH LA	GEORGE			
PRODUCTION OF COATED BORON POWDERS BY CVD FOR PROPELLANT APPLICATIONS	SENIOR	N 12 16/07/90 \$154,910	BURGGRAF 90-MC-260	\$0 / / \$0
PHYSICAL SCIENCES INC	CONSTANCE			
GRAY 2 DEVELOPMENT OF CONVECTIVE PARAMETERIZATION SCHEMES FOR WEATHERCAST MODELS	WRIGHT III	N 12 14/08/90 \$5,750	A STOBIE 90-MC-300	\$5,750 05/07/90 \$5,750
WESOSCALE ENVIRON SIMUL 3 OPER INC	KENNETH			
FEMTOSECOND LASER STUDIES OF EXCITED SURFACE STATES	CAVANAGH	N 12 20/07/90 \$130,000	BURGGRAF 90-MC-231	\$0 / / \$0
NATIONAL INST. OF STANDARDS & TECHNOLOGY	RICHARD			
APPLICATION OF GEL-SILICA OPTICS TO LASER TECHNOLOGY AND OPTICAL ELEMENT FABRICATION	PHILLIPS	N 12 24/07/90 \$61,120	A ULRICH 90-MC-232	\$61,120 01/12/90 \$152,000
DOUGHERBOROUGH UNIV OF TECHNOLOGY	NICHOLAS			
BIOLOGICAL SYNTHESIS OF SUBSTITUTED 3-AMINOPHENOLS	LEIB	R 12 12/09/90 \$170,992	HEDBERG 90-MC-307	\$0 / / \$0
GENERAL ELECTRIC CO	TERRY			
MOLECULAR FORMATION AND DECOMPOSITION PROCESSES IN PLASMA DISCHARGES	RAYSON	N 12 31/07/90 \$123,850	HEDBERG 90-MC-237	\$0 / / \$0
NEW MEXICO STATE UNIVERSITY	SADY			
AUTOMATIC CLOUD CLASSIFICATION FROM MULTI-SPECTRAL SATELLITE DATA	BAUTIER	N 12 19/09/90 \$82,691	A STOBIE 90-MC-309	\$82,691 15/12/90 \$82,691
UNIV OF CALIFORNIA	CATHERINE			

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HIGH ENERGY DENSITY MATERIALS NEW SOLIDS CONTAINING METASTABLE HYDROGEN OR FLUORINE HOUSTON AREA RESEARCH CENTER	MARGRAVE JOHN	N 12 16/07/90 \$321,267	BURGGRAF 90-MC-261	\$0 / / \$0
SELECTING REACTIVITY, ULTRAFAST ENERGY TRANSFER AND THE DEVELOPMENT OF CHEMICALLY PUMPED VISIBLE LASERS GEORGIA TECH RESEARCH CORPORATION	SOLE JAMES	N 12 25/07/90 \$50,000	A BURGGRAF 90-MC-294	\$50,000 01/10/90 \$50,000
SYNTHESIS AND CHEMISTRY OF NEW ENERGETIC MATERIALS AND MOLECULAR CLEFTS DERIVED FROM POLYCYCLIC CAGE COMPOUNDS UNIV OF NORTH TEXAS	MARCHAND ALAN	R 12 06/07/90 \$40,000	HEDBERG 90-MC-251	\$0 / / \$0
THE SYNTHESIS AND CHARACTERIZATION OF NEW ORGANOTINOMY AND -BISMUTH HYDRIDES NAVAL RESEARCH LABORATORY	BERRY ALAN	N 12 31/07/90 \$85,500	HEDBERG 90-MC-290	\$0 / / \$0
RHEOLOGICAL MEASUREMENTS OF UV CURABLE POLYMERS KEMSELMER POLYTECHNIC INSTITUTE	CRAIG KEVIN	N 12 05/07/90 \$98,000	HEDBERG 90-MC-249	\$0 / / \$0
CONDENSED PHASE HIGH ENERGY DENSITY MATTER TURCULIS AEROSPACE CO.	B. GARDNER D	N 12 16/07/90 \$100,000	BURGGRAF 90-MC-275	\$0 / / \$0
SYNTHESIS OF HIGH DENSITY GEM2 A POTENTIAL HIGH HYDROGEN FUEL LAMPENCE LIVERMORE LAB CALIF UNIV	AKELLA JAGAN	N 12 16/07/90 \$243,100	BURGGRAF 90-MC-271	\$0 / / \$0
EXTENDED-SOLID HIGH ENERGY DENSITY MATERIALS LAMPENCE LIVERMORE LAB CALIF UNIV	HAILHOT CHRISTIAN	N 12 16/07/90 \$279,500	BURGGRAF 90-MC-272	\$0 / / \$0
PROCESSING OF NON-OXIDE NANOCOMPOSITE ARCHITECTURES FROM NOVEL POLYMER-BASED COMPOUNDS PENNSYLVANIA STATE UNIVERSITY	MESSING JAPY	N 12 09/09/90 \$245,750	ULRICH 90-MC-297	\$0 / / \$0

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END USA-USER SEMINAR ON FERROELECTRICS DEVOTED TO THE PHYSICS OF FERROELECTRICS AND RELATED MATERIALS PENNSYLVANIA STATE UNIVERSITY	KURTZ STEWART	N 12 17/08/90 \$18,033	D ULRICH 90-NC-302	/ / \$0
SELF-ASSEMBLED CHROMOPHORIC SUPERLATTICES: SYNTHESIS AND CHARACTERIZATION BY NONLINEAR OPTICAL TECHNIQUES NORTHWESTERN UNIVERSITY	MARKS TOSIN	R 12 01/08/90 \$113,000	W ULRICH 90-NC-291	/ / \$0
CONDENSED PHASE HIGH ENERGY DENSITY MATTER UNION TECHNOLOGIES CHEMICAL SYSTEMS DIV	ANDERSEN E	N 12 16/07/90 \$103,000	BURGGRAF 90-NC-269	/ / \$0
PHOTOCHEMICAL SYNTHESIS AND CHARACTERIZATION OF NO ROCKWELL INTER. RESER. DEV. CENTER	SEDER T	N 12 16/07/90 \$100,000	BURGGRAF 90-NC-263	/ / \$0
PRODUCING MOLECULAR COMPOSITES EXHIBITING SUPERIOR MECHANICAL AND OPTICAL PROPERTIES UNIV OF MASSACHUSETTS	STECH RICHARD	N 12 08/08/90 \$50,023	HEDBERG 90-NC-296	/ / \$0
SYNTHESIS OF NEW ATRANE SYSTEMS THERMALLY STABLE LIQUID AND SOLID POLYMERS/POLYMERIC CERAMIC PRECURSORS, WOOD AGENTS & NLO MA LOMA STATE UNIV OF SCIENCE AND TECH	VERKADE JOHN	R 12 24/07/90 \$293,323	HEDBERG 90-NC-293	/ / \$0
FORMATION AND IDENTIFICATION OF HIGH ENERGY LINEAR AND CYCLIC OM N 4-8 POLYMERS AIF RESEARCH INSTITUTE	SNELSON ALAN	N 12 16/07/90 \$94,002	BURGGRAF 90-NC-270	/ / \$0
ULO PROPERTIES OF CONJUGATED MOLECULES AND POLYMERS PRINCETON UNIVERSITY	SOOS COLTAN	N 12 02/09/90 \$101,043	ULRICH 90-NC-292	/ / \$0
CLOUDS--THEIR PREDICTION AND SIMULATION COLORADO STATE UNIVERSITY	COTTON WILLIAM	N 12 23/08/90 \$173,447	STOBIE 90-NC-303	/ / \$0

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STRAINED LAYER SUPERLATTICE OXIDE LUBRICANTS		DAR RIDGE NATIONAL LAB	MCKEE	N 12 31/07/90 \$247,010	BURGGRAF 90-NC-289	/ / \$0
WORKSHOP ON DESIGN AND PROCESSING OF MATERIALS BY FLOWMICKING		UNIV OF WASHINGTON	SARIKAYA	N 12 21/09/90 \$25,000	HEDBERG 90-NC-311	/ / \$0
PHASE TRANSFER CATALYTIC NUCLEOPHILIC ADDITION REACTIONS SYNTHESIS OF POLYMERS AND ACETYLENE TERMINATED RESINS DEXTER CORPORATION - VYSOL AEROSPACE DIV		UNIV OF PENNSYLVANIA	YESH	N 09 30/07/90 \$50,000	HEDBERG 90-NC-236	/ / \$0
THEORETICAL STUDIES OF THE DYNAMICS OF CONDENSED PHASE HIGH ENERGY DENSITY MATERIALS		UNIV OF PENNSYLVANIA	GREGORY	N 12 05/07/90 \$116,632	BURGGRAF 90-NC-248	/ / \$0
THEORETICAL STUDIES OF THE DYNAMICS OF CONDENSED PHASE HIGH ENERGY DENSITY MATERIALS		UNIV OF PENNSYLVANIA	GREGORY	N 12 16/07/90 \$116,632	BURGGRAF 90-NC-273	/ / \$0
MULTIFUNCTIONAL POLYMERIC MATERIALS SYNTHESIS AND CHARACTERIZATION		VIRGINIA POLYTECHNIC INST & STATE UNIV	JAMES	N 12 05/09/90 \$100,547	HEDBERG 90-NC-304	/ / \$0
SYMPOSIUM ON SUPRAMOLECULAR ARCHITECTURE IN TWO AND THREE DIMENSIONS		UNIV OF NEW MEXICO	THOMAS	N 06 10/07/90 \$2,000	ULRICH 90-NC-254	/ / \$0
INTERNATIONAL CONFERENCE ON FRONTIERS OF POLYMER RESEARCH		STATE UNIVERSITY OF NEW YORK	PRASAD	N 12 16/07/90 \$70,230	ULRICH 90-NC-277	/ / \$0
MASS SELECTED CLUSTER CHEMISTRY		STATE UNIVERSITY OF NEW YORK	JARVEY	N 12 10/09/90 \$401,900	ULRICH 90-NC-300	/ / \$0

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UTILIZATION OF SUPERCRITICAL FLUIDS AS SOLVENTS FOR ANIONIC POLYMERIZATIONS - A NOVEL ROUTE TO MOLECULAR ENGINEERED MATERIALS UNIV OF NORTH CAROLINA	JOSEPH DESIMONE	N 12 25/09/90 \$372,324	HEDBERG 90-NC-314	\$0 / / \$0
A MECHANISTIC EVALUATION OF CARBON MATRIX OXIDATION PROTECTION AEROSOL-GENERAL CORP / PROPELLION DIV	SCOTT BROWN	N 12 18/07/90 \$246,000	BURGGRAPH 90-NC-230	\$0 / / \$0
PRODUCTION AND CHARACTERIZATION OF HIGH-ENERGY HYPERVALENT HYDRIDES IN THE CONDENSED PHASE PURDUE RESEARCH FOUNDATION	EDWARD GRANT	N 12 16/07/90 \$211,662	BURGGRAPH 90-NC-255	\$0 / / \$0
DYNAMICS OF ENERGETIC SPECIES IN CONDENSED PHASE COMPUTATIONAL PHYSICS, INC	P SAMINATHAN	N 12 16/07/90 \$100,000	BURGGRAPH 90-NC-276	\$0 / / \$0
APPLICATIONS OF SECOND HARMONIC AND SUM FREQUENCY GENERATION TO GRAPHITE AND SILICA TYPE INTERFACES COLUMBIA UNIVERSITY	KENNETH EISENTHAL	R 12 06/07/90 \$141,822	HEDBERG 90-NC-250	\$0 / / \$0
THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES STANFORD UNIVERSITY	JOHN ROSS	N 12 12/07/90 \$164,396	A WODARCZYK 90-NC-256	\$164,996 01/01/91 \$539,336
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC FLUORIDE OXIDIZERS AND RELATED DERIVATIVES MCMASTER UNIVERSITY	G SCHROEDLSEN	N 12 16/07/90 \$153,767	BURGGRAPH 90-NC-268	\$0 / / \$0
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	KENNETH EISENTHAL	R 06 02/09/90 \$60,000	A HEDBERG 90-NC-294	\$60,000 01/10/90 \$60,000
FIRST INTERNATIONAL WORKSHOP ON MATERIALS PROCESSING AT HIGH GRAVITY CLARKSON UNIVERSITY	WILLIAM WILCOX	N 12 25/09/90 \$47,401	HEDBERG 90-NC-312	\$0 / / \$0

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INVESTIGATOR

A3-INITIO MULTIREFERENCE CONFIGURATION INTERACTION CALCULATIONS ON
DECOMPOSITION PATHWAYS OF HIGH ENERGY DENSITY POLYNITROPOLYMERANE
JOHNS HOPKINS UNIVERSITY KAUFMAN

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N 12 10/07/90 3201.155	BURGGRAPH 20-NC-267	50 / / 50

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MECHANISTIC STUDIES OF PRESSURE-ASSISTED SUPERPLASTICITY OF STRUCTURAL CERAMICS UNIV OF MICHIGAN	CHEN I WEI	R 12 20/07/90 \$39,470	A SCHOLER 90-NE-214	\$39,470 15/11/90 \$39,470
MAGNETO - OPTICAL PROPERTIES OF QUANTUM STRUCTURES WITH REDUCED DIMENSIONALITY EMORY UNIVERSITY	BAJAJ KRISHAN	N 36 23/07/90 \$399,328	A POMRENKE 90-NE-215	\$125,677 01/12/90 \$399,058
SEVENTH WORLD CONFERENCE ON TITANIUM IDaho UNIVERSITY	FROES F	N 20 26/07/90 \$10,000	A ROSENSTEIN 90-NE-216	\$10,000 01/01/91 \$10,000
HIGH SPEED AMPLIFIER FOR OPTICAL COMPUTING UNIV OF COLORADO	BARNES FRANK	N 36 02/08/90 \$581,381	CRAIG 90-NE-219	\$0 / / \$0
GROWTH AND STRUCTURE OF MBE-DEPOSITED IRIIDIUM SILICIDE UNIV OF ARIZONA	FALCO CHARLES	N 36 16/08/90 \$504,458	POMRENKE 90-NE-224	\$0 / / \$0
AN INTEGRATED ELECTRO-OPTIC PACKET MODE CONTROL UNIV OF COLORADO	JORDAN HARRY	N 36 16/08/90 \$239,418	CRAIG 90-NE-225	\$0 / / \$0
CONNECTIONIST MODELS FOR INTELLIGENT COMPUTATION UNIV OF MARYLAND	CHEN H	N 36 23/08/90 \$654,654	SUDDARTH 90-NE-229	\$0 / / \$0
THE CORAL GABLES WORKSHOP ON ELECTRONIC STRUCTURE AND MECHANISMS FOR HIGH TEMPERATURE SUPERCONDUCTIVITY UNIV OF MIAMI	ASHKENAZI JOSEF	N 07 07/09/90 \$9,900	D WEINSTOCK 90-NE-234	\$0 / / \$0
COMPUTATIONAL-ANALYTIC APPROACH TO MANY-BODY PHYSICS AND HIGH TEMPERATURE SUPERCONDUCTIVITY UNIV OF MIAMI	ASHKENAZI JOSEF	N 36 07/09/90 \$490,670	D WEINSTOCK 90-NE-235	\$0 / / \$0

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QUASI-BALLISTIC TRANSPORT AND QUANTUM-MECHANICAL TRANSPORT IN ULTRA-SMALL AND HIGH-SPEED SI-JE FETS UNIV OF MINNESOTA	CHOU	M 36 19/09/90 \$480,751	WITT 90-NE-237	\$0 / / \$0
WORKSHOP ON FUNDAMENTALS OF CARBON/CARBON	DAVID	M 02 08/08/90 \$12,050	SCHOLER 90-NE-220	\$12,050 01/11/90 \$12,050
NATIONAL INST. OF STANDARDS & TECHNOLOGY	CRAMER	M 36 21/08/90 \$789,308	CRAIG 90-NE-227	\$0 / / \$0
ALL OPTICAL APPROACHES TO WAVELENGTH ENCODED COMMUNICATIONS SWITCHING, AND COMPUTING SYSTEMS - DEVICES AND MATERIALS STUDIES UNIV OF SOUTHERN CALIFORNIA	P DAPKUS	M 36 03/07/90 \$548,072	WITT 90-NE-204	\$0 / / \$0
ULTRAFAST PHYSICS INVESTIGATION OF SIX YEARS SPACE EXPOSED LDEF AND NATIVE CONTROL SEMICONDUCTOR AND LASER MATERIALS CITY COLLEGE - CUNY	ROBERT ALFANO	M 36 16/07/90 \$429,226	CRAIG 90-NE-207	\$0 / / \$0
ALL OPTICAL BEAM DEFLECTORS BASED ON AN INDUCED AREA MODULATION IN NONLINEAR MATERIALS CITY COLLEGE - CUNY	ROBERT ALFANO	M 06 16/08/90 \$80,000	POMREMKE 90-NE-223	\$0 / / \$0
THE FOURTH INTERNATIONAL SYMPOSIUM ON SI-BASED MOLECULAR BEAM EPITAXY UNIV OF CALIFORNIA	WANG	R 36 21/08/90 \$551,522	WITT 90-NE-226	\$126,451 01/02/91 \$384,774
GROWTH AND ELECTRICAL AND FAR-INFRARED PROPERTIES OF WIDE ELECTRON WELLS IN SEMICONDUCTORS UNIV OF CALIFORNIA	JOSSARD	M 36 26/09/90 \$468,000	CRAIG 90-NE-239	\$0 / / \$0
STUDIES OF NONLINEAR OPTIC INTERACTION OF COUNTER-PROPAGATING GUIDED WAVES FOR PERFORMING LOGIC FUNCTIONS IN OPTICAL COMPUTING UNIV OF CALIFORNIA	SHYH WANG	M 36 16/07/90 \$399,195	POMREMKE 90-NE-211	\$0 / / \$0
ATOMIC LAYER EPITAXY OF SEMICONDUCTOR HETEROSTRUCTURES NORTH CAROLINA STATE UNIVERSITY	JEDAITZ			

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A STUDY OF OPTIONS FOR AN AFOSR FAR EAST OFFICE TECHNOLOGY INTERNATIONAL, INC.	BLOOM JUSTIN	N 06 20/07/90 \$1,500	A WITT 90-NE-213	\$1,500 01/08/90 \$1,500
NUMERICAL STUDIES OF LOW TEMPERATURE GALLIUM ARSENIDE BUFFER LAYERS AND THEIR INFLUENCE ON DEVICE OPERATION SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUBIN HAROLD	N 36 31/08/90 \$360,439	A WITT 90-NE-231	\$90,150 01/02/91 \$360,439
PERSISTANT PHOTOCONDUCTIVITY IN II-VI MIXED SEMICONDUCTORS RELATED TRANSMISSIONS & NOVEL OPTO-ELECTRONIC DEVICES KANSAS STATE UNIVERSITY	JIANB HONGXING	N 36 07/09/90 \$224,059	CRAIG 90-NE-233	\$0 / / \$0
ANALYSIS OF PROCESS INDUCED DEFECTS IN FORGINGS AND EXTRUSIONS COLORADO SCHOOL OF MINES	VAN TYME C	N 36 04/09/90 \$278,463	ROSENSTEIN 90-NE-232	\$0 / / \$0
SCANNED PROBED MICROSCOPIES STM AND BEYOND UNITED ENGINEERING TRUSTEES INC	KORUEK ALEXANDER	N 05 16/07/90 \$10,000	A WEINSTOCK 90-NE-206	\$10,000 01/12/90 \$10,000
MICROSTRUCTURAL DESIGN THROUGH PRECERAMIC POLYMER CHEMISTRY SOUTHWEST RESEARCH INSTITUTE	SCHWAB STUART	N 36 16/07/90 \$393,751	SCHIOLER 90-NE-212	\$0 / / \$0
MRS SYMPOSIUM ON ADVANCED TOMOGRAPHIC IMAGING METHODS FOR THE ANALYSIS OF MATERIALS MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 12 02/07/90 \$3,780	A SCHIOLER 90-NE-201	\$3,870 15/10/90 \$3,870
HIGH TEMPERATURE ORDERED INTERMETALLIC ALLOYS IV MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 09 03/07/90 \$5,000	A ROSENSTEIN 90-NE-203	\$5,000 30/09/90 \$5,000
ELECTRONIC, OPTICAL AND DEVICE PROPERTIES OF LAYERED STRUCTURES MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 12 27/08/90 \$3,000	B POMRENKE 90-NE-228	\$0 / / \$0

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EIGHTEENTH ANNUAL CONFERENCE ON THE PHYSICS AND CHEMISTRY OF SEMICONDUCTOR INTERFACE ROCKWELL INTERNATIONAL, SCIENCE CENTER		Q	N 06 09/09/90 \$8,400	A POMRENKE 90-NE-221	\$8,400 15/01/91 \$8,400
PROCESSING - PROPERTY RELATIONSHIPS IN ADVANCED INTERMETALLICS ROCKWELL INTERNATIONAL, SCIENCE CENTER	WARDWICK	DALLIS	N 36 19/09/90 \$459,920	ROSENSTEIN 90-NE-236	\$0 / / \$0
MOLECULAR BEAM EPITAXY GROWN OXIDES - A NEW CLASS OF CERAMICS OAK RIDGE NATIONAL LAB	MCKEE	RODNEY	N 36 16/07/90 \$830,561	A SCHIOLER 90-NE-210	\$220,000 01/10/90 \$830,561
ACCURACY ENHANCEMENT IN OPTICAL COMPUTING TEXAS TECH UNIVERSITY	WALKUP	JOHN	N 36 02/07/90 \$551,693	CRAIG 90-NE-202	\$0 / / \$0
HIGH TEMPERATURE SUPERCONDUCTING FILMS & MULTILAYERS FOR ELECTRONICS WESTINGHOUSE ELECTRIC CORPORATION	CAVALER	J	N 36 29/08/90 \$899,998	A WEINSTOCK 90-NE-230	\$299,986 01/01/91 \$899,998
HIGH TEMPERATURE SUPERCONDUCTING FILMS AND CRYSTALS STANFORD UNIVERSITY	SEBALLE	T	R 34 16/07/90 \$599,991	A WEINSTOCK 90-NE-209	\$199,995 01/12/90 \$599,991
HOLOGRAPHIC DATA STORAGE IN PHOTOREFRACTIVES STANFORD UNIVERSITY	HESELINK	LAMPERTUS	N 36 26/09/90 \$391,628	CRAIG 90-NE-238	\$0 / / \$0
MATERIAL ENGINEERING OF NOVEL SEMICONDUCTOR STRUCTURES JOHNS HOPKINS UNIVERSITY	KHURGIN	JACOB	R 36 01/09/90 \$480,300	A CRAIG 90-NE-213	\$162,000 15/01/91 \$480,300

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TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONTEXT AND REPROCESSING FLUENCY UNIV OF TORONTO	MACLEOD COLIN	N 36 03/07/90 \$326,862	FREGLY 90-NL-173	\$0 / \$0
MECHANISMS OF BRIGHTNESS PERCEPTION AND FILLING-IN BROWN UNIVERSITY	PARADISO MICHAEL	N 36 01/08/90 \$332,168	TANGNEY 90-NL-186	\$0 / \$0
STATES AND DYNAMICS OF VISUAL ATTENTION UNIV OF NEBRASKA	FLOWERS JOHN	N 36 13/08/90 \$137,341	FREGLY 90-NL-189	\$0 / \$0
MONOCLONAL ANTIBODY DETECTION OF CHLORINATED BENZENES ON CONTAMINATED SEDIMENTS UNIV OF MISSOURI	HOSSEMAN DEBORAH	N 36 19/09/90 \$209,349	CERVENY 90-NL-210	\$0 / \$0
IN SITU BIODEGRADATION OF NITROAROMATIC COMPOUNDS IN SOIL IDAHO UNIVERSITY	CRAWFORD RONALD	N 36 19/09/90 \$290,752	CERVENY 90-NL-212	\$0 / \$0
INCORPORATION OF MINERAL SURFACES AND NATURE OF ORGANIC CONTENT IN TO A FUNDAMENTAL UNDERSTANDING SORPTION OF MONOMERIC ORGANICS UNIV OF OKLAHOMA	SABATINI DAVID	N 36 19/09/90 \$379,770	CERVENY 90-NL-219	\$0 / \$0
MOLECULAR CLONING AND ANALYSIS OF DIOXIN REGULATED GENES UNIV OF ARKANSAS	HARRISON, III ROBERT	N 36 19/09/90 \$514,394	CERVENY 90-NL-220	\$0 / \$0
TRANSPORT OF SUBSURFACE CONTAMINANTS BY GROUND WATER COLLOIDS IDAHO UNIVERSITY	VON WANDRUSZKA RAY	N 36 19/09/90 \$303,938	CERVENY 90-NL-222	\$0 / \$0
AEROSOL CHEMICAL PROPERTIES AND ENVIRONMENTAL FACTORS EFFECTS CLARK COLLEGE	STELSON ARTHUR	N 36 19/09/90 \$293,850	CERVENY 90-NL-225	\$0 / \$0

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NEW POLYAMIDES AND POLYAMIDINES FOR SELECTIVE METAL CHELATION UNIV OF TOLEDO	SMITH DOUGLAS	N 36 21/09/90 \$304,259	CERVENY 90-NL-227	\$0 / / \$0
STUDIES ON THE UPTAKE, ACCUMULATION AND TRANSFORMATION OF CHLORINA TED PHENOLS BY THE AQUATIC ANGIOSPERM, LEMNA GIBBA TULANE UNIVERSITY	BARBER JOHN	N 36 20/09/90 \$381,062	CERVENY 90-NL-231	\$0 / / \$0
CHARACTERIZATION OF HETEROGENEITIES CONTROLLING TRANSPORT AND FATE OF POLLUTANTS IN UNCONSOLIDATED SAND AND GRAVEL AQUIFERS UNIV OF KANSAS	MCLEWEE CARL	N 36 21/09/90 \$359,986	CERVENY 90-NL-235	\$0 / / \$0
THE FATE OF A MIXTURE OF AN ORGANIC ARSENICAL 4SMA AND A PHEOXYA CETIC ACID 2-4D AMINE, IN THE ENVIRONMENT TULANE UNIVERSITY	ABDELGHANI ASSAF	N 36 21/09/90 \$891,390	CERVENY 90-NL-237	\$0 / / \$0
CRUSTACEAN MODELS FOR STUDING THE EFFECTS OF NAPHTHALENE FINGERMAN TULANE UNIVERSITY	MILTON	N 36 21/09/90 \$296,448	CERVENY 90-NL-239	\$0 / / \$0
OPTIMAL STRATEGY FOR RECOVERY OF FREE PRODUCT HYDROCARBONS WANAKULE TEXAS COLLEGE	NISAI	N 16 21/09/90 \$100,096	CERVENY 90-NL-240	\$0 / / \$0
HEAVY METALS THEIR EFFECT ON THE MANGROVE FERN ACROSTICHUM AND IT S MECHANISM FOR SALT TOLERANCE HOWARD UNIVERSITY	PETERSON RAYMOND	N 36 21/09/90 \$397,395	CERVENY 90-NL-243	\$0 / / \$0
TOXIC METAL MIGRATION THROUGH SOILS UNIV OF TEXAS	WILEY JOHN	N 36 21/09/90 \$233,655	CERVENY 90-NL-245	\$0 / / \$0
A NEW APPROACH TO THE DETERMINATION OF BIOAVAILABLE METALS IN SURF ACE WATERS UNIV OF WYOMING	BERGMAN HAROLD	N 36 24/09/90 \$339,550	CERVENY 90-NL-249	\$0 / / \$0

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
IMPACT OF NUTRIENT LIMITATION ON BIOACCUMULATION OF LIPOPHILIC XEN BIOTICS IN PLANKTONIC FOOD WEBS TEXAS COLLEGE	GROEGER ALAN	N 36 24/09/90 \$357,771	CERVENY 90-NL-252	\$0 / / \$0
PROCESSES CONTROLLING COLLISION-FACILITATED TRANSPORT OF CONTAMINANT S TO SUBSURFACE ENVIRONMENTS UNIV OF GEORGIA	MILLER WILLIAM	N 36 24/09/90 \$426,610	CERVENY 90-NL-253	\$0 / / \$0
ENVIRONMENTAL TOXICOLOGY A MARKER FOR NEPHROTOXIC ENVIRONMENTAL C ONTAMINANTS UNIV OF MARYLAND, BALTIMORE CAMPUS	REINSCHUESSEL RENATE	N 36 20/09/90 \$313,211	CERVENY 90-NL-232	\$0 / / \$0
EXPRESSION OF PROTEIN SYNTHESIS IN ENVIRONMENTAL STRESS UNIV OF MARYLAND, BALTIMORE CAMPUS	BRADLEY BRYAN	N 36 24/09/90 \$559,774	CERVENY 90-NL-248	\$0 / / \$0
APPLICATIONS OF CHEMICAL REACTION INTERFACE/MASS SPECTROMETRY TO P ROBLEMS IN ECOTOXICITY GEORGE WASHINGTON UNIVERSITY	ABRAMSON FRED	N 36 24/09/90 \$500,248	CERVENY 90-NL-251	\$0 / / \$0
PREDICTING WHAT PEOPLE LEARN FROM EXAMPLES GEORGIA INSTITUTE OF TECH	CATRANGONE RICHARD	N 36 18/09/90 \$188,650	FREGLY 90-NL-203	\$0 / / \$0
CNS ACTION OF MELATONIN ON BRAIN AROUSAL STATE CALIFORNIA STATE UNIVERSITY	STANTON TONI	N 36 27/07/90 \$240,964	HADDAD 90-NL-185	\$0 / / \$0
ANATOMY AND PHYSIOLOGY OF THE STARTLE RESPONSE UNIV OF CALIFORNIA	SIEGEL JEROME	N 60 03/07/90 \$994,357	BERRY 90-NL-175	\$0 / / \$0
MODELING SENSORIMOTOR ADAPTION IN HUMAN-MACHINE SYSTEMS UNIV OF CALIFORNIA	STARK LAURENCE	N 36 17/03/90 \$437,454	TANENNEY 90-NL-190	\$0 / / \$0

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PERCEPTUAL INFORMATION PROCESSING AN OBSERVER-THEORETIC INVESTIG ATION UNIV OF CALIFORNIA	HOFFMAN DONALD	N 36 20/09/90 \$281,773	TANGNEY 90-NL-193	\$0 / / \$0
TRANSPORT AND BIODEGRADATION OF VOLATILE ORGANIC CHEMICALS IN THE WADOSE ZONE EFFECTS OF SPATIAL HETEROGENEITY UNIV OF CALIFORNIA	SCOM KATE	N 36 19/09/90 \$375,000	CERVENY 90-NL-218	\$0 / / \$0
BIOMARKERS OF EXPOSURE MOLECULES TO ECOSYSTEM UNIV OF CALIFORNIA	WILSON BARRY	N 36 19/09/90 \$354,022	CERVENY 90-NL-225	\$0 / / \$0
USE OF GLUTATHIONE S-TRANSFERASE IN MICROBIAL DEGRADATION OF HALOA ROMATICS UNIV OF CALIFORNIA	SVANEN MICHAEL	N 36 21/09/90 \$516,456	CERVENY 90-NL-236	\$0 / / \$0
THE ROLE OF RESUSPENDED SEDIMENTS IN THE TRANSPORT AND BIOACCUMULA TION OF TOXIC ORGANIC CONTAMINANTS IN NEARSHORE MARINE ENVIRONMENT UNIV OF RHODE ISLAND	LATIMER JAMES	N 24 19/09/90 \$238,968	CERVENY 90-NL-207	\$0 / / \$0
FATE AND TOXICITY OF ORGANIC CONTAMINANTS IN SEDIMENTS UNIV OF RHODE ISLAND	GAMERDINGER AMY	N 36 24/09/90 \$339,547	CERVENY 90-NL-255	\$0 / / \$0
INTERSPECIES EXTRAPOLATIONS OF HALOCARBON RESPIRATORY AND TISSUE K INETICS APPLICATIONS TO PREDICTING TOXICITY IN DIFFERENT SPECIES GEORGIA UNIV RESEARCH FOUNDATION INC	DALLAS CHAM	N 36 04/09/90 \$453,678	CERVENY 90-NL-199	\$0 / / \$0
IN VIVO ANEUPLOIDY ASSAY IN SOMATIC AND GERM CELLS OF MICE SSTK RESEARCH LABORATORIES	GUDI RAMADEVI	N 36 13/09/90 \$329,953	CERVENY 90-NL-188	\$0 / / \$0
STRESS AND DECISION MAKING IN A COMMUNICATIONS CONTEXT NAVAL RESEARCH LABORATORY	SCHWIDT-NIELSON ASTRID	N 36 18/09/90 \$622,414	FREGLY 90-NL-202	\$0 / / \$0

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BIOMARKERS OF ENVIRONMENTAL CONTAMINATION FOR ASSESSING POLLUTION UNIV OF PUERTO RICO	JIMENEZ BRAULIO	N 24 21/09/90 \$470,362	CERVENY 90-NL-234	\$0 / / \$0
THE CELLULAR/MOLECULAR EFFECTS OF INSECTICIDES AND POLYCHLORINATED BIPHENYLS ON FISH REPRODUCTION UNIV OF NOTRE DAME	GOETZ FREDERICK	N 36 20/09/90 \$428,670	CERVENY 90-NL-233	\$0 / / \$0
NATURE OF PESTICIDES RESIDUES BOUND TO HUMIN SOUTH DAKOTA STATE UNIVERSITY	RICE JAMES	N 36 21/09/90 \$323,439	CERVENY 90-NL-238	\$0 / / \$0
MOVEMENT OF 2,4-D THROUGH RIGHT-OF-WAY DITCH SOILS SOUTH DAKOTA STATE UNIVERSITY	CLAY SHAPON	N 24 21/09/90 \$152,683	CERVENY 90-NL-242	\$0 / / \$0
COGNITION IN THE BRAIN INVESTIGATIONS USING POSITRON EMISSION TO MOGRAPHY MASSACHUSETTS GENERAL HOSPITAL	ALPERT NATHANIEL	N 12 17/07/90 \$25,390	A FREGLY 90-NL-179	\$25,390 01/11/90 \$25,390
ATOMOLE LEVEL DETECTION OF DNA ADDUCTS BY MASS SPECTROMETRY NORTHEASTERN UNIVERSITY	GIESE ROGER	N 36 19/09/90 \$420,083	CERVENY 90-NL-209	\$0 / / \$0
IN SITU SEDIMENT TOXICITY TESTING WITH INDICATOR SPECIES WRIGHT STATE UNIVERSITY	BURTON, JR GLEN	N 36 19/09/90 \$312,998	CERVENY 90-NL-221	\$0 / / \$0
MICROBIAL MEDIATION OF HEAVY METAL TOLERANCE IN PLANTS KANSAS STATE UNIVERSITY	METERICK BARBARA	N 36 24/09/90 \$508,943	CERVENY 90-NL-247	\$0 / / \$0
NEUROSYNAPTIC LONG-TERM DEPRESSION OF MOSSY FIBER AFFERENTS TO TH IN CA3 SUBFIELD OF THE HIPPOCAMPUS UNIV OF PITTSBURGH	BARRIONUEVO GERMAN	N 36 11/07/90 \$107,349	HADDAD 90-NL-177	\$0 / / \$0

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TERMODYNAMICALLY CORRECT BIOAVAILABILITY ESTIMATIONS UNIV OF CINCINNATI	DORSEY JOHN	N 36 21/09/90 \$410,925	CERVENY 90-NL-244	\$0 / / \$0
DEFINITION AND POSSIBLE AMELIORATION OF THE PHOTOTOXICITY OF UV-A AND BLUE LIGHT ON THE RETINAL PIGMENT EPITHELIUM PAUTLER COLORADO STATE UNIVERSITY	EUGENE	R 36 27/08/90 \$614,012	CERVENY 90-NL-195	\$0 / / \$0
DEGRADATION OF BENZENE AND 1,4 DICHLOROBENZENE BY BACILLUS STEAROT HERMOPHILUS JR316 MICHIGAN STATE UNIVERSITY	OPIEL PATRICK	N 24 29/08/90 \$157,390	CERVENY 90-NL-197	\$0 / / \$0
THE EFFECTS OF DESORPTION ON THE ANAEROBIC BIODEGRADATION OF HALOG ENATED COMPOUNDS MICHIGAN STATE UNIVERSITY	CRIDDLE CRAIG	N 36 19/09/90 \$451,157	CERVENY 90-NL-213	\$0 / / \$0
WILD MAMMALIAN BIOMONITORS FOR ASSESSING IMPACTS OF ENVIRONMENTAL CONTAMINATION ON POPULATION AND COMMUNITY ECOLOGY LOCHMILLER III OKLAHOMA STATE UNIVERSITY	ROBERT	N 36 24/09/90 \$448,784	CERVENY 90-NL-254	\$0 / / \$0
CLAY-HUMIC ACID SORPTION OF ARENES FROM ALKANE-WATER BIPHASIC SOLV ENTS MICHIGAN STATE UNIVERSITY	ANDERSON SHARON	N 36 24/09/90 \$208,234	CERVENY 90-NL-256	\$0 / / \$0
RESEARCH IN TOXICOLOGY PRESENTED BY AND FOR MINORITIES SOCIETY OF TOXICOLOGY	EMRICH MARION	N 12 11/07/90 \$5,000	CERVENY 90-NL-176	\$0 / / \$0
THE PROCESS OF TIME-PRESSURED DECISION MAKING UNIV OF WASHINGTON	HUNT EARL	N 36 27/08/90 \$335,698	FREGLY 90-NL-194	\$0 / / \$0
DEVELOPMENT OF TECHNIQUES FOR THE EVALUATION OF TOXICANT IMPACTS T J MULTISPECIES SYSTEMS WESTERN WASHINGTON UNIVERSITY	LANDIS WAYNE	N 36 24/09/90 \$357,153	CERVENY 90-NL-246	\$0 / / \$0

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IMPROVED PERFORMANCE EVALUATION ON COMPLEX TASKS THROUGH THE INCORPORATION OF RESPONSE SPEED INTO ABILITY ESTIMATES EDUCATIONAL TESTING SERVICE	SEJAR ISAAC	N 12 29/08/90 \$49,394	TANGNEY 90-NL-198	\$0 / \$0
IMPLICIT AND EXPLICIT LEARNING LOUISIANA STATE UNIVERSITY	STADLER MICHAEL	N 24 20/09/90 \$171,775	FREGLEY 90-NL-228	\$0 / \$0
SORPTION OF TOXIC METALS ONTO IRON SULFIDES STATE UNIVERSITY OF NEW YORK	SHOONEN MARTIN	N 36 19/09/90 \$311,737	CERVENY 90-NL-208	\$0 / \$0
DIOXIN TOXICITY AND RETINOIDS STATE UNIVERSITY OF NEW YORK	NAPOLI JOSEPH	N 36 19/09/90 \$607,687	CERVENY 90-NL-215	\$0 / \$0
THE RELATIONSHIP BETWEEN DIATOM LIFE CYCLE STAGES AND THE DEVELOPMENT OF RESISTANCE TO ORGANIC POLLUTANTS STATE UNIVERSITY OF NEW YORK	COSPER ELIZABETH	N 36 21/09/90 \$487,206	CERVENY 90-NL-241	\$0 / \$0
MISYAMINERGIC M1 RECEPTORS AND CORTICAL AROUSAL UNIV OF BRITISH COLUMBIA	REIMER PETER	N 36 28/08/90 \$300,975	HADDAD 90-NL-196	\$0 / \$0
MECHANISM OF LETHAL INTERACTION OF HAZARDOUS CHEMICALS AT SUBTOXIC DOSES UNIV OF MISSISSIPPI MEDICAL CENTER	MEHENDALE HARIMARA	R 36 10/08/90 \$6,800,000	CERVENY 90-NL-187	\$0 / \$0
HYPOBARIC DECOMPRESSION SICKNESS WORKSHOP USAF-SCHOOL OF AEROSPACE MEDICINE	SILMANIS ANDREW	N 12 10/09/90 \$10,000	A CERVENY 90-NL-200	\$10,000 01/10/90 \$10,000
THE EFFECTS OF HALOGENATED HYDROCARBONS ON AQUATIC ORGANISMS ALABAMA A&M UNIVERSITY	TADPOB MAHASIN	N 36 17/08/90 \$390,525	CERVENY 90-NL-191	\$0 / \$0

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MOLECULAR GENETIC ANALYSIS OF ANTIOXIDANT DEFENSE SYSTEMS IN A EUC ARYOTE WAYNE STATE UNIVERSITY	ARKING ROBERT	N 36 19/09/90 \$484,372	CERVENY 90-NL-216	\$0 / \$0
1991 GORDON RESEARCH CONFERENCE ON NEURAL PLASTICITY				
CASE WESTERN RESERVE UNIVERSITY	ZIGMOND RICHARD	N 06 18/09/90 \$5,000	HADDAD 90-NL-201	\$0 / \$0
REPRESENTATIONAL TRANSFER IN PROBLEM SOLVING				
VANDERBILT UNIVERSITY	NOVICK LAURA	N 36 18/09/90 \$228,770	FREGLY 90-NL-204	\$0 / \$0
STREAM BENTHIC ALGAL COMMUNITY COMPOSITION UNDER NATURAL AND CHEMI CAL PERTURBATIONS KENT STATE UNIVERSITY	CARLSON ROBERT	N 36 19/09/90 \$403,733	CERVENY 90-NL-206	\$0 / \$0
HYDROPHOBIC POLLUTANT PARTITIONING WATER, COLLOIDS, SOLIDS				
KENT STATE UNIVERSITY	CABANISS STEPHEN	N 36 19/09/90 \$336,113	CERVENY 90-NL-224	\$0 / \$0
USE OF SIMULATION OF THE HUMAN CENTRAL FOVEA TO DETERMINE RESOLUT ION AND MAXIMIZING VISUAL DISPLAYS DORTMUND UNIV--INST / ARBEITSPHYSIOLOGIE	SEMINOFF ROBERT	N 36 17/08/90 \$171,540	TANGMEY 90-NL-192	\$0 / \$0
INVESTIGATION OF DICHLOROBENZENE TOXICITY				
MARSHALL UNIVERSITY	VALENTOVIC MONICA	N 36 24/07/90 \$229,000	CERVENY 90-NL-192	\$0 / \$0
MULTISENSORY INPUTS TO VESTIBULAR VELOCITY STORAGE INVOLVEMENT IN PERFORMANCE OF SPATIAL ORIENTATION TASKS MANITOBA UNIVERSITY	JELL RALPH	N 36 19/09/90 \$230,778	HADDAD 90-NL-205	\$0 / \$0
DEVELOPMENT OF WIENER THEORY FOR NETWORK ANALYSIS				
NEW YORK UNIVERSITY MEDICAL CENTER	NAKA KEN-ICHI	N 48 11/07/90 \$502,926	TANGMEY 90-NL-178	\$0 / \$0

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ENVIRONMENTAL EFFECTS IN MICROBIAL BIOTRANSFORMATION OF TOXIC SUBS IRATES UNIV OF CONNECTICUT	COUGHLIN	N 36 19/09/90 \$512,966	CERVENY 90-NL-211	\$0 / \$0
JAHNERGIC CONTROL OF CIRCADIAN RHYTHMS GEORGIA STATE UNIVERSITY	ALBERS	N 36 03/07/90 \$167,783	BERRY 90-NL-174	\$0 / \$0
NEURAL MECHANISMS OF ATTENTION JOHNS HOPKINS UNIVERSITY	JLTON	N 18 17/07/90 \$61,157	A FREGLY 90-NL-190	\$61,157 01/11/90 \$61,157
MECHANISMS OF HUMAN VISUAL ATTENTION JOHNS HOPKINS UNIVERSITY	YANTIS	N 36 24/07/90 \$197,809	FREGLY 90-NL-181	\$0 / \$0
RELATIONSHIP OF SOIL SUCTION TO POLLUTANT DISTRIBUTION IN SOILS ARIZONA STATE UNIVERSITY	HOUSTON	N 36 19/09/90 \$249,483	CERVENY 90-NL-217	\$0 / \$0
DEVELOPMENT OF CARBONACEOUS RESIN TEST FOR SOIL ORGANIC CONTAMINAN TS MONTANA STATE UNIVERSITY	SKOGLEY	N 36 20/09/90 \$510,372	CERVENY 90-NL-229	\$0 / \$0
AIR ANALOGUE STUDIES OF FATE AND EFFECTS OF ORGANIC MOLECULES GEORGIA STATE UNIVERSITY	CROW, JR	N 36 20/09/90 \$362,396	CERVENY 90-NL-230	\$0 / \$0
PERCEPTION OF COMPLEX AUDITORY PATTERNS INDIANA UNIVERSITY	WATSON	N 36 02/07/90 \$432,659	TANGNEY 90-NL-172	\$0 / \$0
DEEP UNDERPRESSURIZED NATURAL HYDRAULIC COMPARTMENTS AS HAZARDOUS WASTE REPOSITORIES INDIANA UNIVERSITY	ORTOLEVA	N 36 19/09/90 \$489,740	CERVENY 90-NL-214	\$0 / \$0

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GOODING

CHARLES

BIOCHEMICAL AND MOLECULAR BASIS OF MICROBIAL DEGRADATION OF XENOBIOTICS
JACKSON UNIVERSITY

WALIA

SATISH

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N 36 19/09/90 \$221,330	CERVENY 90-NL-223	\$0 / \$0
N 36 24/09/90 \$480,023	CERVENY 90-NL-250	\$0 / \$0

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ROBUST CONTROL OF NONLINEAR SYSTEMS VARIABLES UNIV OF MINNESOTA	GAIN SCHEDULING ON FAST SHAMMA	N 36 05/07/90 \$120,159	JACOBS 90-NM-355	\$0 / \$0
STATISTICAL THEORY OF RELIABILITY UNIV OF MISSOURI	ASIT	R 36 10/07/90 \$249,570	SJOGREN 90-NM-356	\$0 / \$0
SAFETY STANDARD DEVELOPMENT FOR ULTRA-SHORT LASER PULSES UNIV OF ARIZONA	HOLONEY	N 36 10/07/90 \$277,991	A NACHMAN 90-NM-357	\$96,923 01/12/90 \$300,104
INTERNATIONAL RESEARCH CONFERENCE ON RELIABILITY UNIV OF MISSOURI	ASIT	N 12 24/07/90 \$65,410	SJOGREN 90-NM-370	\$0 / \$0
DESIGN RULES OF 111-CONDITIONED MULTIVARIABLE FEEDBACK SYSTEMS UNIV OF MICHIGAN	FREUDENBERG	N 24 25/07/90 \$211,320	JACOBS 90-NM-377	\$0 / \$0
CONTROL SYSTEM SYNTHESIS USING MULTIPLE NORM OPTIMIZATION UNIV OF ILLINOIS	PERKINS	N 24 25/07/90 \$138,463	JACOBS 90-NM-378	\$0 / \$0
DUAL METHODS IN LARGE SCALE OPTIMIZATION UNIV OF FLORIDA	HASER	N 36 30/07/90 \$651,331	GLASSMAN 90-NM-384	\$0 / \$0
SYSTEMS OF CONVOLUTION EQUATIONS, DECONVOLUTION, AND WAVELETS ANALYSIS UNIV OF MARYLAND	PERENSTEIN	N 12 06/08/90 \$102,521	NACHMAN 90-NM-387	\$0 / \$0
MATHEMATICAL PROBLEMS IN TRANSONIC FLOW UNIV OF DELAWARE	COOK-ICANNIDIS	N 12 06/08/90 \$43,499	A NACHMAN 90-NM-339	\$32,954 01/12/90 \$32,954

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A KALMAN FILTERING APPROACH TO STOCHASTIC TOMOGRAPHY UNIV OF MICHIGAN	YAGLE ANDREW	R 24 08/08/90 \$141,146	SJOGREN 90-NM-392	\$0 / / \$0
MULTIPARAMETER BIFURCATIONS AND APPLICATIONS UNIV OF MISSOURI	CHICONE CARMEN	N 36 14/08/90 \$140,347	HOLLAND 90-NM-400	\$0 / / \$0
PARALLEL LOGIC PROGRAMMING AND KNOWLEDGE BASE SYSTEMS UNIV OF MARYLAND	MINKER JACK	N 36 15/08/90 \$227,348	WAKSMAN 90-NM-401	\$0 / / \$0
MICROSCOPIC THEORY OF THE DIELECTRIC RESPONSE OF HIGHLY DISPERSIVE STOLOGICAL MEDIA UNIV OF MISSOURI	VIGNALE GIOVANNI	N 24 15/08/90 \$101,314	NACHMAN 90-NM-403	\$0 / / \$0
SAMPLING AND WAVELETS IN ILL-POSED PROBLEMS UNIV OF DELAWARE	NASHED M.	N 36 15/08/90 \$216,395	NACHMAN 90-NM-404	\$0 / / \$0
NEURAL NETWORKS CONTROLLERS FOR UNCERTAIN DYNAMICAL SYSTEMS PURDUE UNIVERSITY	ZAK STANISLAW	N 24 21/08/90 \$141,158	JACOBS 90-NM-407	\$0 / / \$0
RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING UNIV OF MARYLAND	BASIL VICTOR	R 12 21/08/90 \$235,113	HOLLAND 90-NM-408	\$0 / / \$0
ADVANCED SCIENTIFIC COMPUTING FOR THE 90 S BROWN UNIVERSITY	BOTTLEZ DAVID	N 09 21/08/90 \$40,400	NACHMAN 90-NM-411	\$0 / / \$0
STUDY OF FEATURES OF BINARY IMAGES USING IMAGE ALGEBRA TECHNIQUES UNIV OF NEBRASKA	SHATTACHARYA PRAJIT	R 12 22/08/90 \$420,000	D JAKSMAN 90-NM-415	\$0 / / \$0

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INTEGRATED EXPERT DATABASE SYSTEMS UNIV OF TEXAS	MIRANKER DANIEL	N 36 22/08/90 \$685,627	WAKSMAN 90-NM-416	\$0 / / \$0
DEVELOPMENT OF HIGH ACCURACY APPROXIMATE FACTORIZATION METHODS FOR TRANSIENT FLUID DYNAMICS DAAT RESEARCH	DVINSKY ARKADY	N 36 04/09/90 \$296,620	NACHMAN 90-NM-423	\$0 / / \$0
ASPECTS OF MODELING, IDENTIFICATION AND CONTROL OF DYNAMICAL SYSTEMS UNIV OF MINNESOTA	GEORGIU TRYPHON	N 36 04/09/90 \$259,086	JACOBS 90-NM-424	\$0 / / \$0
APPLIED ORTHOGONAL POLYNOMIAL PURDUE UNIVERSITY	GAUTSCHI WALTER	N 36 04/09/90 \$331,330	D NACHMAN 90-NM-427	\$0 / / \$0
PARALLEL SOLUTION OF LARGE-SCALE STRUCTURED NONLINEAR OPTIMIZATION PROBLEMS UNIV OF MINNESOTA	ROSEN J.	R 24 12/09/90 \$149,973	GLASSMAN 90-NM-431	\$0 / / \$0
COMPETITIVE AND STOCHASTIC PROBLEMS BY VECTOR EXTREMAL METHODS UNIV OF TEXAS	CHARNES A.	N 24 12/09/90 \$112,000	GLASSMAN 90-NM-432	\$0 / / \$0
PLASTIC INSTABILITY PHENOMENA WITH ASPECTS OF CHAOS IN FIXED-EDGE STRUCTURES SUBJECTED TO SHORT PULSE LOADING BROWN UNIVERSITY	SYMONDS P.	N 36 17/09/90 \$177,555	NACHMAN 90-NM-434	\$0 / / \$0
DYNAMIC KNOWLEDGE-BASE APPROACH TO MODELLING SPACEBORNE POWER SYSTEMS UNIV OF TENNESSEE	BYKAT ALEX	N 36 20/09/90 \$349,515	WAKSMAN 90-NM-440	\$0 / / \$0
INDUCTIVE INFERENCE IN INTELLIGENT DATABASE SYSTEMS UNIV OF TENNESSEE / SPACE INSTITUTE	ALI MOONIS	N 36 15/08/90 \$170,436	WAKSMAN 90-NM-402	\$0 / / \$0

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PROBABILITY AND ALGORITHMS NATIONAL RESEARCH COUNCIL	COX	N 24 12/07/90 \$25,000	A SJOGREN 90-NM-362	\$25,000 01/11/90 \$25,000
ASPECTS OF INFERENCE FOR STRENGTH - STRESS MODELS TEMPLE UNIVERSITY SCHOOL OF MEDICINE	MOORE	N 36 29/08/90 \$123,968	SJOGREN 90-NM-421	\$0 / / \$0
NUMERICAL SOLUTIONS FOR NONLINEAR EXTREMAL PROBLEMS ASSOCIATED WITH PARTIAL DIFFERENTIAL EQUATIONS SOUTHERN ILLINOIS UNIVERSITY	GREGORY	N 24 08/08/90 \$100,271	JACOBS 90-NM-391	\$0 / / \$0
CONFERENCE ON OPTIMIZATION AND OPTIMAL CONTROL THEORY AND APPLICATIONS SOUTHERN ILLINOIS UNIVERSITY	LEDZEWICZ-KOWALEWSKAUSOULA	N 06 11/09/90 \$17,700	JACOBS 90-NM-430	\$0 / / \$0
SAMPLE PATH ALGORITHMS FOR OPTIMIZATION OF QUEUING NETWORKS GEORGIA INSTITUTE OF TECH	WARDI	N 24 17/09/90 \$211,531	GLASSMAN 90-NM-433	\$0 / / \$0
COMMUNICATION NETWORK SURVIVABILITY IN A MILITARY ENVIRONMENT STEVENS INSTITUTE OF TECHNOLOGY	SATYANARAYANA	N 24 30/07/90 \$35,649	GLASSMAN 90-NM-393	\$0 / / \$0
PARALLEL ARCHITECTURES AND ALGORITHMS FOR IMAGE UNDERSTANDING UNIV OF SOUTHERN CALIFORNIA	KUMAR	N 36 06/08/90 \$365,300	WAKSMAN 90-NM-390	\$0 / / \$0
AUTOMATIC SYNTHESIS OF APPLICATION SPECIFIC INTEGRATED SYSTEMS ASIS UNIV OF SOUTHERN CALIFORNIA	PARKER	N 36 29/08/90 \$543,308	HOLLAND 90-NM-420	\$0 / / \$0
COMPUTATIONAL METHODS IN CONTINUUM MECHANICS NORTH CAROLINA A&T STATE UNIVERSITY	JORAN	R 36 24/07/90 \$609,225	NACHMAN 90-NM-369	\$0 / / \$0

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FORMATION OF THREE-DIMENSIONAL SINGULARITIES, REGULARIZATION PROCEDURES & MARKOVIAN-MULTIFRACTAL DESCRIPTION OF TURBULENT FLOWS UNIV OF CALIFORNIA	NOVIKOV	N 36 05/07/90 \$247,818	NACHMAN 90-NM-343	\$0 / / \$0
DESIGN OF ROBUST CONTROLLERS FREQUENCY DOMAIN METHODS AND THEIR NON-LINEAR EXTENSIONS UNIV OF CALIFORNIA	MELTON	R 36 05/07/90 \$356,440	JACOBS 90-NM-351	\$0 / / \$0
NONPARAMETRIC METHODS FOR INCOMPLETE DATA IN RELIABILITY AND FOR CHANGEPOINTS IN SMOOTH FUNCTIONS UNIV OF CALIFORNIA	WANG	R 27 24/07/90 \$151,673	SJOGREN 90-NM-372	\$0 / / \$0
DYNAMICS OF DEFORMABLE BODIES UNIV OF CALIFORNIA	MARSDEN	N 12 31/07/90 \$74,651	A NACHMAN 90-NM-386	\$74,651 01/01/91 \$74,651
COMBINATORIAL OPTIMIZATION PROBLEMS IN LOCATIONS AND LAYOUTS UNIV OF CALIFORNIA	HAKIMI	N 36 22/08/90 \$293,046	D GLASSMAN 90-NM-417	\$0 / / \$0
SPECTRAL ANALYSIS BASED ON THE CANONICAL AUTOREGRESSIVE DECOMPOSITION UNIV OF RHODE ISLAND	KAY	N 24 10/07/90 \$83,422	A SJOGREN 90-NM-358	\$40,807 01/10/90 \$83,422
IMPLICIT DIFFERENTIAL EQUATIONS ARISING IN CONTROL PROBLEMS NORTH CAROLINA STATE UNIVERSITY	CAMPBELL	N 36 25/07/90 \$164,911	JACOBS 90-NM-376	\$0 / / \$0
GRAPH OPTIMIZATION PROBLEMS IN COMPUTING NORTH CAROLINA STATE UNIVERSITY	STALLMAN	N 24 21/08/90 \$114,743	GLASSMAN 90-NM-405	\$0 / / \$0
OPTIMIZATION PROBLEMS IN FUNCTION SPACES NORTH CAROLINA STATE UNIVERSITY	KELLEY	N 36 29/08/90 \$167,716	GLASSMAN 90-NM-422	\$0 / / \$0

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ADAPTIVE DYNAMICS FOR NEURAL COMPUTATION	PINEDA	M 12 22/08/90 \$70,500	A JACOBS 90-NM-414	\$70,500 01/12/90 \$70,500
JET PROPULSION LABORATORY	FERNANDO			
THEORETICAL AERODYNAMICS	COLE	R 12 10/07/90 \$81,437	A NACHMAN 90-NM-361	\$81,437 01/11/90 \$81,437
RENSSELAER POLYTECHNIC INSTITUTE	JULIAN			
LOCALIZATION ON IMAGING RECORDS	HADDAD	M 12 04/09/90 \$123,188	NACHMAN 90-NM-425	\$0 / / \$0
LA JOLLA INSTITUTE	ZIAD			
MULTIVARIATE ANALYSIS AND ITS APPLICATIONS	RAO	R 21 30/07/90 \$339,974	SJOGREN 90-NM-381	\$0 / / \$0
PENNSYLVANIA STATE UNIVERSITY	C.			
A RELIABLE COMMUNICATION SYSTEM FOR THE AIR FORCE	MARVASTI	M 36 20/09/90 \$238,368	SJOGREN 90-NM-436	\$0 / / \$0
ILLINOIS INSTITUTE OF TECHNOLOGY	FAROKH			
NONLOCAL METHODS FOR SIGNAL DETECTION AND ESTIMATION IN THE DEPENDENT NONSTATIONARY ENVIRONMENT	HALVERSON	R 24 09/08/90 \$76,461	SJOGREN 90-NM-395	\$0 / / \$0
TEXAS A AND M RESEARCH FOUNDATION	DON			
STABILITY OF DYNAMICAL SYSTEMS IN THE PRESENCE OF NOISE	PINSKY	M 36 24/07/90 \$490,038	SJOGREN 90-NM-374	\$0 / / \$0
NORTHWESTERN UNIVERSITY	MARK			
ANALYTICAL/NUMERICAL INVESTIGATION OF COMBUSTION DYNAMICS, AND MODELING AND ANALYSIS OF NOISE EFFECTS ON DYNAMICAL SYSTEMS	BERNARD	M 36 25/07/90 \$589,476	NACHMAN 90-NM-375	\$0 / / \$0
NORTHWESTERN UNIVERSITY	MATKOWSKY			
AN INTEGRATED MODELING APPROACH FOR THE CELL FORMATION PROBLEM IN CELLULAR MANUFACTURING SYSTEMS	LOGENDRAN	M 12 09/08/90 \$35,608	D GLASSMAN 90-NM-397	\$0 / / \$0
OREGON STATE UNIVERSITY	RASARATNAM			

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ECONOMIES OF PRODUCTION THROUGH DUPLICATING BOTTLENECK MACHINES AND SUBCONTRACTING BOTTLENECK PARTS IN CELLULAR MANUFACTURING OREGON STATE UNIVERSITY	RASARATHNAM LOGENDRAN	N 20 09/08/90 \$65,534	0 GLASSMAN 90-NM-398	\$0 / \$0
SERIES SYSTEM RELIABILITY DEMONSTRATION, ESTIMATING THE NUMBER OF DEFECTIVES, AND BURN-IN OHIO STATE UNIV RESEARCH FOUNDATION	BLUMENTHAL SAUL	R 24 30/07/90 \$108,982	SJOGREN 90-NM-382	\$0 / \$0
RETRIEVAL USING PLAUSIBLE INFERENCE UNIV OF MASSACHUSETTS	CROFT W.	N 24 16/07/90 \$133,684	WAKSHAN 90-NM-368	\$0 / \$0
NON-HOMOGENEOUS DEFORMATIONS IN NON-LINEARLY ELASTIC MATERIALS UNIV OF PITTSBURGH	RAJAGOPAL K.	N 36 08/08/90 \$161,732	MACHMAN 90-NM-394	\$0 / \$0
MULTICRITERIA OPTIMAL SHAPE DESIGN WORCESTER POLYTECHNIC INSTITUTE	LIPTON ROBERT	N 36 20/09/90 \$263,195	JACOBS 90-NM-441	\$0 / \$0
A NEW CODE DEVELOPMENT ENABLING IMPROVED MATERIALS DESIGN FOR DOD APPLICATIONS APPLIED ENERGY SCIENCES INC	LOGAN JOSEPH	N 12 22/08/90 \$148,400	0 NACHMAN 90-NM-419	\$0 / \$0
COMPUTING SCIENCE AND STATISTICS SYMPOSIUM ON THE INTERFACE INTERFACE FOUNDATION OF NORTH AMERICA	KETTENRING J. R.	N 06 21/08/90 \$47,150	SJOGREN 90-NM-410	\$0 / \$0
DIMENSION REDUCTION OF COUPLED DIFFERENTIAL EQUATION SYSTEMS BY NON-LINEAR TRANSFORMATIONS PRINCETON UNIVERSITY	RABITZ HERBERT	N 36 21/08/90 \$418,690	NACHMAN 90-NM-409	\$0 / \$0
PARAMETRIC AND COMBINATORIAL PROBLEMS IN CONSTRAINED OPTIMIZATION COLORADO STATE UNIVERSITY	POORE AUBREY	R 24 21/08/90 \$150,529	A GLASSMAN 90-NM-412	\$47,273 01/02/91 \$97,320

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NEW CUTTING PLANE UNIV OF WASHINGTON	GOLDSTEIN EMERITUS	N 24 20/09/90 \$112,592	GLASSMAN 90-NM-437	\$0 / \$0
INTEGER PROGRAMMING FORMULATION OF COMPOSITE LAMINATE DESIGN PROBLEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	HAFTKA RAPHAEL	N 36 09/08/90 \$193,420	GLASSMAN 90-NM-396	\$0 / \$0
INDUCTIVE LEARNING OF DECISION RULES FROM ATTRIBUTE BASED EXAMPLES A GENETIC ALGORITHM APPROACH UNIV OF NORTH CAROLINA	ROBLIN J.	N 12 16/07/90 \$52,599	WAKSMAN 90-NM-366	\$0 / \$0
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON	R 12 22/03/90 \$55,182	A GLASSMAN 90-NM-418	\$41,000 01/12/90 \$41,000
LEAST SQUARES COMPUTATIONS IN SCIENCE AND ENGINEERING WAKE FOREST UNIVERSITY	PLEMMONS ROBERT	R 36 06/08/90 \$187,562	A GLASSMAN 90-NM-388	\$59,460 01/02/91 \$170,308
OPTIMIZATION OF A MULTI-PRODUCT, MULTI-PERIOD DISTRIBUTION SYSTEM WITH FIXED COSTS CASE WESTERN RESERVE UNIVERSITY	SALKIN HARVEY	N 12 21/08/90 \$55,399	GLASSMAN 90-NM-413	\$0 / \$0
CHAOS AND HOMOCLINIC ORBITS IN NEAR INTEGRABLE PDE S OHIO STATE UNIVERSITY	OVERMAN II EDWARD	N 24 24/07/90 \$64,169	A NACHMAN 90-NM-373	\$31,916 01/02/91 \$64,169
STABILIZATION AND CONTROL OF NONLINEAR PASSIVE SYSTEMS IN DISCRETE TIME WASHINGTON UNIVERSITY	GHOSH BIJOY	N 36 25/07/90 \$188,205	D JACOBS 90-NM-380	\$0 / \$0
VISUAL REASONING AND TASK STRUCTURES TWO IDEAS FOR NEXT GENERATION KNOWLEDGE SYSTEMS OHIO STATE UNIVERSITY	CHANDRASEKHARAN P.	N 24 20/09/90 \$269,988	WAKSMAN 90-NM-438	\$0 / \$0

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EXPLOITING SPECIAL STRUCTURE IN LARGE-SCALE OPTIMIZATION	BRADLEY	N 12 25/09/90 \$99,818	A GLASSMAN 90-NM-442	\$99,818 01/02/91 \$99,318
NAVAL POST GRADUATE SCHOOL				
MULTIVARIATE OUTPUT ANALYSIS OF DISCRETE-EVENT SIMULATIONS USING THE KALMAN FILTER	BAUER	N 24 10/09/90 \$13,500	A GLASSMAN 90-NM-429	\$13,500 01/10/90 \$13,500
AIR FORCE INSTITUTE OF TECHNOLOGY	KENNETH			
THE DESIGN OF ROBUSTLY PERFORMING SYSTEMS UNDER PARAMETRIC UNCERTAINTY/VARIATION	VALAVANI	N 36 10/07/90 \$200,621	JACOBS 90-NM-360	\$0 / / \$0
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LENA			
FUNDAMENTAL LIMITATIONS AND CAPABILITIES OF ROBUST IDENTIFICATION AND ADAPTIVE CONTROL	DAHLEH	N 36 25/07/90 \$330,001	JACOBS 90-NM-379	\$0 / / \$0
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MUNTHE			
THEORY AND METHODS FOR SOLVING LINEAR PROGRAMMING PROBLEMS BASED ON INTERIOR-POINTS AND CENTERING	FREUND	N 24 20/09/90 \$192,247	GLASSMAN 90-NM-435	\$0 / / \$0
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ROBERT			
NEW DIRECTIONS IN NETWORK FLOWS		R 12 20/09/90 \$93,124	A GLASSMAN 90-NM-439	\$85,274 01/01/91 \$85,274
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ORLIN			
SECOND INTERNATIONAL CONFERENCE ON INDUSTRIAL AND APPLIED MATHEMATICS		N 01 09/08/90 \$77,186	NACHMAN 90-NM-399	\$0 / / \$0
SOCIETY FOR INDUSTRIAL & APPLIED MATH	BLOCK			
MATHEMATICAL PROBLEMS OF NONLINEAR WAVE PROPAGATION AND OF WAVES IN HETEROGENEOUS MEDIA	KELLER	N 36 05/07/90 \$371,860	A NACHMAN 90-NM-349	\$106,300 01/11/90 \$339,177
STANFORD UNIVERSITY				
SOLVING LINEAR PROGRAMS UNDER UNCERTAINTY, USING DECOMPOSITION, IMPORTANCE SAMPLING, AND PARALLEL PROCESSORS	DANTZIG	N 36 16/07/90 \$602,194	GLASSMAN 90-NM-367	\$0 / / \$0
STANFORD UNIVERSITY	GEORGE			

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STOCHASTIC CONTROL AND TOPICS IN APPLIED PROBABILITY COLUMBIA UNIVERSITY	KARATZAS IOANNIS	N 36 08/08/90 \$330,414	JACOBS 90-NM-393	\$0 / \$0
ALGORITHMS FOR LINEAR AND NONLINEAR PROGRAMMING STANFORD UNIVERSITY	MURRAY WALTER	N 36 21/08/90 \$469,588	GLASSMAN 90-NM-406	\$0 / \$0
RESEARCH ON TELEO-REACTIVE AGENTS STANFORD UNIVERSITY	NILSSON NILS	N 36 10/09/90 \$312,712	WAKSMAN 90-NM-428	\$0 / \$0
COMMUNICATION IN THE PRESENCE OF SEVERE NOISE CALIFORNIA INSTITUTE OF TECHNOLOGY	MCLELIECE ROBERT	R 12 05/07/90 \$93,743	A GLASSMAN 90-NM-354	\$93,010 01/10/90 \$93,743
PROGRAM COMPOSITION CALIFORNIA INSTITUTE OF TECHNOLOGY	CHANDY K.	N 36 30/07/90 \$375,243	A HOLLAND 90-NM-395	\$124,243 01/11/90 \$375,243
CONFERENCE ON INVERSE PROBLEMS IN DIFFERENTIAL EQUATIONS COMPUTATIONAL ALGORITHMS TEXAS A AND M UNIVERSITY	RUNDELL WILLIAM	N 09 05/07/90 \$22,000	A NACHMAN 90-NM-353	\$8,000 01/01/91 \$8,000
APPLICATIONS OF RADIAL BASIS FUNCTIONS FITTING SCATTERED DATA IN HIGHER DIMENSIONS AND COLLOCATION METHODS FOR PARTIAL DIFF. EQUAT. TEXAS A AND M UNIVERSITY	NARCOMICH FRANCIS	N 36 04/09/90 \$136,442	NACHMAN 90-NM-426	\$0 / \$0

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NONLINEAR OPTICS IN NOVEL COMPOSITE MEDIA		BROWN UNIVERSITY	LAWANDY	N 36 13/08/90 \$606,491	A SCHLOSSBER 90-NP-130	\$165,000 01/12/90 \$495,000
OPTICAL FIBER LASER CHARACTERIZATION EQUIPMENT		BROWN UNIVERSITY	MORSE	N 12 17/08/90 \$42,575	SCHLOSSBER 90-NP-132	\$0 / / \$0
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS		UNIV OF FLORIDA	JARTLETT	R 12 20/08/90 \$136,059	A KELLEY 90-NP-133	\$136,059 01/12/90 \$136,059
CALCULATION AND HALF COLLISION ANALYSIS OF STATE-TO-STATE CROSS SECTIONS IN ATOMIC COLLISIONS		NATIONAL INST. OF STANDARDS & TECHNOLOGY	JULIENNE	N 12 13/09/90 \$116,000	A KELLEY 90-NP-136	\$116,000 01/13/90 \$116,000
ION CLUSTERS AND EXOTIC PLASMA STATES		STEVENS INSTITUTE OF TECHNOLOGY	NARDI	N 12 06/07/90 \$139,822	A BARKER 90-NP-120	\$139,822 01/02/91 \$139,822
THEORETICAL AND STM STUDIES OF THE ELECTRONIC STRUCTURE OF METAL/SEMICONDUCTOR/HYDROGEN SYSTEMS		STEVENS INSTITUTE OF TECHNOLOGY	ERMLER	R 12 17/07/90 \$56,029	LUPU 90-NP-123	\$0 / / \$0
MICE MICROWAVE INTERACTION WITH CLOAKING-PLASMA EFFORT		MISSION RESEARCH CORP	BOLLEN	N 12 19/07/90 \$120,302	BARKER 90-NP-124	\$0 / / \$0
COMPACT MILLIMETER WAVE DEVICES DIELECTRIC LOADED CARM, HIGH VOLTAGE CARM, SLOW WAVE CRM AND HIGH HARMONIC GYROTRON		UNIV OF CALIFORNIA	NEVILLE	R 12 03/07/90 \$100,000	A BARKER 90-NP-119	\$100,000 01/12/90 \$100,000
ANOMALOUS ABSORPTION OF ELECTROMAGNETIC RADIATION		NAVAL RESEARCH LABORATORY	ROWLAND	N 24 16/08/90 \$165,500	BARKER 90-NP-131	\$0 / / \$0

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EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS	REYNOLDS	N 12 13/09/90 \$66,000	A KELLEY 90-NP-137	\$66,000 01/10/90 \$66,000
OFFICE OF NAVAL RESEARCH				
HIGH ENERGY DENSE RIGION BEAMS AND HIGH POWER GYROTRONS AT 422METER WAVELENGTHS UNIV OF CINCINNATI	FERENDECI	N 24 20/07/90 \$113,399	BARKER 90-NP-126	\$0 / / \$0
BACKWARD WAVE OSCILLATOR INVESTIGATIONS IN THE RAMAN REGIME UNIV OF NEW MEXICO	SCHAMILGLOU	R 12 20/07/90 \$100,288	A BARKER 90-NP-127	\$100,288 01/11/90 \$100,288
THEORETICAL INVESTIGATIONS OF TIME-DEPENDENT BEHAVIOR OF ELECTRON SWARMS IN GASES WAYNE STATE UNIVERSITY	JADEHRA	N 36 13/08/90 \$243,284	LUPO 90-NP-128	\$0 / / \$0
STUDY OF ADVANCED APPLICATIONS OF WAVE-PARTICLE INTERACTION TEXAS TECH UNIVERSITY	ISHIHARA	N 36 10/07/90 \$242,808	BARKER 90-NP-121	\$0 / / \$0
DEPREACONS				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	COUNSELMAN	N 36 20/07/90 \$558,493	PERRIZO 90-NP-125	\$0 / / \$0
CRYSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDENBERG AIR FORCE BASE	KING	R 12 31/08/90 \$30,570	PERRIZO 90-NP-135	\$0 / / \$0
MASSACHUSETTS INSTITUTE OF TECHNOLOGY				
NONLINEAR WAVE-PARTICLE INTERACTION IN THE SOLAR WIND PLASMA, THE MAGNETOSPHERE, AND THE IONOSPHERE POLYTECHNIC INSTITUTE OF NEW YORK	KUO	N 36 16/07/90 \$128,398	D RADOSKI 90-NP-122	\$0 / / \$0
OPTICAL, ELECTRONIC AND OPTOELECTRIC MATERIAL AND DEVICE RESEARCH CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV	N 36 13/08/90 \$1,908,561	A SCHLOSSBER 90-NP-129	\$160,000 01/10/90 \$530,000

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NOVEL METHODS OF ACCELERATION	A	\$200,000
CORNELL UNIVERSITY	BARKER	01/02/91
	90-WP-134	\$200,000

INVESTIGATOR

NATION JOHN

TYPE/MONTHS
 RECEIVED
 AMOUNT
 R 12
 27/09/90
 \$200,000